PUBLIC HEALTH REPORTS

VOL. 36.

W

JANUARY 21, 1921

No. 3

SYPHILIS AS A CAUSE OF INSANITY.

By ELISE DONALDSON, Assistant Director of Educational Work, Division of Venereal Diseases, United States Public Health Service.

That syphilis is the cause of a substantial percentage of existing insanity has long been recognized. Various authors have differently estimated this percentage, but statistics bearing on the question are more or less meager. As this subject is important both from the point of view of public health and from the point of view of public expenditure, it was felt that it was worth while to obtain some definite data showing how large a proportion of the inmates of the State institutes for the insane were insane because of syphilis, and showing also the former occupations of these persons.

A letter was therefore sent to the superintendents of 159 State hospitals for the insane throughout the United States, requesting this information.

Replies were received from 115 of these institutions, and in 88 of these the data supplied were of such character that they could be tabulated. Occupational data were available in 65 instances.

In the 88 replies used for tabulation, the following States are represented:

Arizona.
California.
Colorado.
Connecticut.
District of Columbia.
Georgia.
Illinois.
Indiana.
Iowa.
Kansas.
Kentucky.
Louisiana.
Maine.

Maryland.
Massachusetts.
Michigan.
Minnesota.
Mississippi.
Missouri.
Montana.
Nebraska.
New Hampshire.
New York.

North Dakota.

Ohio.

Oklahoma.
Oregon.
Pennsylvania.
Rhode Island.
South Carolina.
South Dakota.
Tennessee.
Texas.
Vermont.
Virginia.
West Virginia.
Wisconsin.

Wyoming.

It can be seen from this list that a wide geographical area is covered by the figures.

As the percentages varied substantially for inmates and for admissions it seemed best to separate the two in tabulation. It was pointed out in several answers that the lives of those whose insanity is due to

24542°-21-1

(67)

syphilis are comparatively short, and that therefore the percentage is higher among admissions than it is among the inmates.

Table I.—Percentage of inmates of State institutions for the insane whose insanity was a result of syphilis, and percentage of admissions whose insanity was a result of syphilis.

Name of hospital.	Percentage of inmates insare as a result of syphilis.			Percentage of admis sions insane as a re sult of syphilis.			
	Male.	Female	Total.	Male.	Female	Total.	
Arizona:		1					
State Hospital, Phoenix	6.0	7.4	6.4	*******	*******		
Mendocino State Hospital, Talmage						7.0	
Napa State Hospital, Napa Southern California State Hospital, Patton	13.6	4.9	10.3	21.5		16.4	
Colorado:							
Colorado State Hospital, Pueblo	15.7	5.4	11.2		*******		
State Hospital, Middletown	2.5	.9	1.6				
Norwich State Hospital, Norwich	5.6	2.1	3.9				
District of Columbia: St. Elizabeths Hospital, Washington	4.6	1.4	3.7				
Georgia:		1. 1	0.7				
State Sanitarium, Milledgeville				*******		6.4	
Illinois: Anna State Hospital, Anna				4.0	1.0	2.7	
Anna State Hospital, Anna. Alton State Hospital, Upper Alton. Elgin State Hospital, Elgin. Jacksonville State Hospital, Jacksonville.	4.3	.4	2.5	*******			
Elgin State Hospital, Elgin			5.0	21.0			
Kankakee State Hospital, Kankakee	13. 4	4.3	9.9				
Kankakee State Hospital, Kankakee Watertown State Hospital, Watertown	2.5	.4	1.5				
Indiana: Central Indiana Hospital for the Insane, Indian-							
apolis				14.8	3.7		
lowa:					_		
Independence State Hospital, Independence Mount Pleasant State Hospital, Mount Pleasant	2.7	.7	1.8	4.3	.7	2.8	
Kansas:			2.0				
Osawatomie State Hospital, Osawatomie	5.0	1.3		14.0	6.4	10.5	
Topeka State Hospital, Topeka	3.0	1.3	3.4	• • • • • • • •			
Central State Hospital, Lakeland						7.1	
Louisiana: Louisiana Hospital for Insane, Pineville	6.1	2.9	4.5				
Maine:			4.0				
Augusta State Hospital, Augusta	7.9	3.7					
Bangor State Hospital, Bangor	4.4	1.5					
Springfield State Hospital, Sykesville				16.8	7.4	12.8	
Spring Grove State Hospital, Catonsville				15.0	5.0	10.0	
Bridgewater State Hospital, State Form, Bridge-							
water			.3				
Danvers State Hospital, Hathorne Foxboro State Hospital, Foxboro	11.9	2.4	9.3				
Medfield State Hospital, Harding	2.4	1.3	1.8				
Northampton State Hospital Northampton	3.5	2.7	3.1			• • • • • • • • • • • • • • • • • • • •	
State Infirmary, Tewksbury. Taunton State Hospital, Taunton. Westboro State Hospital, Westboro. Worcester State Hospital, Worcester	7.2	2.6				• • • • • • • • • • • • • • • • • • • •	
Westboro State Hospital, Westboro				8.7	2.1	4.5	
Worcester State Hospital, Worcester	6.0	4.0	4.9				
Jonia State Hazzital Tonia						7.4	
Kalamazoo State Hospital, Kalamazoo	9.5	2.3	5.9	21.4	8.2	16.2	
Kalamazoo State Hospital, Kalamazoo Newbury State Hospital, Newbury Pontiae State Hospital, Pontiae	8.1	2.7	5.6	10.0	4.0	10.1	
Traverse City State Hospital, Traverse City				17.4	13.2	15.5	
finnesota: Fergus Falls State Hespital, Fergus Falls				22.0	19.0		
Rochester State Hospital, Rochester	12.8	3.2		22.0	19.0		
lississippi:					i		
Mississippi State Insane Hospital, Fondren Lissouri:			2.8			• • • • • • •	
State Hospital No. 2, St. Joseph	8.0	3.5					
State Hospital No. 3, Nevada	4.0	.3					
State Hospital No. 4, Farmington	1.3	0					
Montana State Hospital for Insane, Warm Springs.			7.8				

Table I.—Percentage of inmates of State institutions for the insane whose insanity was a result of syphilis, and percentage of admissions whose insanity was a result of syphilis—Continued.

e is

was t of

mis-

tal.

7.0 16.4 ... 6.4 2.7

2.9

2.8 10.5 7.1 12.8 10.0

4.5

7. 4 16. 2 10. 1 15. 5

...

...

2.7 2.8 .7 .9 1.0 2.4 2.3 13.0	1.5 1.9 4.3 5.6 1.8 2.7 2.5 4.1 3.7	21. 1 16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5,4 5,0 8,4 7,3 10,0 3,0 6,1 7,5 7,5 6,6 8,9 4,9 6,0	13. 2 10. 6 19. 2 13. 0 16. 6 11. 3 6. 0
1.7 0.8 2.7 2.9 2.8 .7 .9 1.0 2.4 2.3 13.0	1.9 4.3 5.6 1.8 2.7 2.7 2.5 4.1 3.7	16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5.0 8.4 7.3 10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	10.0 19.2 13.0 16.6 11.3 14.3 6.0 7.4 11.1 12.3 9.3 11.4
1.7 0.8 2.7 2.9 2.8 .7 .9 1.0 2.4 2.3 13.0	1.9 4.3 5.6 1.8 2.7 2.7 2.5 4.1 3.7	16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5.0 8.4 7.3 10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	10.0 19.2 13.0 16.6 11.3 14.3 6.0 7.4 11.1 12.3 9.3 11.4
2.7 2.9 2.8 .7 .9 1.0 2.4 2.3 13.0	3.6 1.8 2.7 2.5 4.1 3.7 .2	16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5.0 8.4 7.3 10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	10.0 19.2 13.0 16.6 11.3 11.3 6.0 7.4 11.1 12.3 9.3 11.4
2.7 2.9 2.8 .7 .9 1.0 2.4 2.3 13.0	5.6 1.8 2.7 2.7 2.5 4.1 3.7	16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5.0 8.4 7.3 10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	13.0 16.6 11.3 11.3 6.0 7.4 11.1 12.3 9.3 11.4
2.7 2.9 2.8 .7 .9 1.0 2.4 2.3 13.0	5.6 1.8 2.7 2.7 2.5 4.1 3.7	16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5.0 8.4 7.3 10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	10.0 19.2 13.0 16.6 11.3 11.3 6.0 7.4 11.1 12.3 9.3 11.4
2.9 2.8 .7 1.0 2.4 2.3 13.0	5.6 1.8 2.7 2.7 2.5 4.1 3.7	16. 7 28. 6 19. 6 20. 0 20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	5.0 8.4 7.3 10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	10.0 19.2 13.0 16.6 11.3 11.3 6.0 7.4 11.1 12.3 9.3 11.4
2.9 2.8 .7 1.0 2.4 2.3 13.0	5.6 1.8 2.7 2.7 2.5 4.1 3.7	28.6 19.6 20.0 20.1 21.9 4.7 7.4 16.1 14.7 13.2 16.3	8.4 7.3 10.0 3.0 6.1 7.5 6.6 8.9 4.9 6.0	19.2 13.0 16.6 11.3 11.3 6.0 7.4 11.1 12.3 19.3 11.4
2.9 2.8 .7 1.0 2.4 2.3 13.0	5.6 1.8 2.7 2.7 2.5 4.1 3.7	20.0 20.1 21.9 4.7 7.4 16.1 14.7 13.2 16.3	10.0 3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	13.0 16.6 11.3 11.3 6.0 7.4 11.1 12.3 9.3 11.4
2.8 .7 1.0 2.4 2.3 13.0	1.8 2.7 2.7 2.5 4.1 3.7 .2	20. 1 21. 9 4. 7 7. 4 16. 1 14. 7 13. 2 16. 3	3.0 6.1 7.5 7.5 6.6 8.9 4.9 6.0	11.3 14.3 6.0 7.4 11.1 12.3 9.3 11.4
.7 1.0 2.4 2.3 13.0	1.8 2.7 2.7 2.5 4.1 3.7 .2	21.9 4.7 7.4 16.1 14.7 13.2 16.3	6.1 7.5 7.5 6.6 8.9 4.9 6.0	14.3 6.0 7.4 11.1 12.3 9.3 11.4
.7 1.0 2.4 2.3 13.0	1.8 2.7 2.7 2.5 4.1 3.7 .2	4.7 7.4 16.1 14.7 13.2 16.3	7.5 6.6 8.9 4.9 6.0	6.0 7.4 11.1 12.3 9.3 11.4
	2.7 2.7 2.5 4.1 3.7 .2	16. 1 14. 7 13. 2 16. 3	6.6 8.9 4.9 6.0	11. 1 12. 3 9. 3 11. 4
	2.7 2.7 2.5 4.1 3.7 .2	16. 1 14. 7 13. 2 16. 3	6.6 8.9 4.9 6.0	11. 1 12. 3 9. 3 11. 4
1.0 2.4 2.3 13.0	2.7 2.5 4.1 3.7 .2	13. 2 16. 3	4.9 6.0	9.3
1.0 2.4 2.3 13.0	2.5 4.1 3.7 .2 5.4	16.3	6.0	11. 4
2. 4 2. 3 13. 0	4.1 3.7 .2			
2.3 13.0	3.7	16.8		13.6
13.0	5.4	16.8		13.6
	5.4	16.8		13.6
0	5.4	16.8		13.0
0		16.8		
0		16.8		15, 0
0			9. 2	13.0
0				
	3.0			
1.3	2.8			
		13.0	8.0	10.0
1.0	*******	20.0	6.4	10.0
		18.9	4.1	12.4
1.8	4.4			
.7	1.2			
	1.2	17.0	0.0	
		15.0	3.0	
4.0				
1.5				
1.3	1.8			
2.5	4.6			
.5				
		40.0		
		8.0	1.9	7.5 5.6
6.0				
1	1.3 2.5 .5 6.0 arize	1.5	1.5	4.0

It must be borne in mind that these figures do not represent the incidence of syphilis among the insane, or the number of those giving a positive Wassermann. Some insane persons have contracted syphilis after becoming insane; others contracted syphilis before becoming insane, their insanity being due, however, to other causes.

Table II.—Occupations of inmates of 65 State institutions for the insane whose insanity was caused by syphilis. (The list covers occupations of 4,441 men and 1,195 women.)

0	Nut	mber.	Occupation	Number.	
Occupation.	Male.	Female.	Occupation.	Male.	Female
Accountant	10		Detective	3	
Acrobat	2		Dishwasher	3	
Actor	15	1	Domestic		98
Advertising distributor	37		Draftsman	7	
Agent	37		Draper	2	
Army officer	3		Druggist	16	
Artist	5		Dyer	1	
Assembler	1				1
Athletic manager	1		Efficiency expert	1	
Auctioneer	1		Electrician	41	
Awning maker	1		Electroplater	3	
De Lee	26	1	Elevator operator	5	
Baker	1		Engineer (civil)	1	
BankerBayber.	63		Engineer (gas)	19	******
Parkeeper	60		Engineer (mining)	3	******
Basket worker	2		Engineer (stationary)	12	
Billiardist	1		Engraver	5	
Bill poster	1		Errand boy	2	
Blacksmith			Expressman	3	
Boatman	1			00	
Boiler maker	8		Factory worker	30	1
Bcokbinder	10		Farm laborer	236	
Bookkeeper		9	Fireman		
Bootblack Box maker		·····i	Fireman (locomotive)		
Brakeman	9		Fisherman		
Brewer	3		Florist		
Brick mason	12		Foreman	10	
Broker	. 3		Foreman (foundry)	2	
Broom maker			Fortune teller	1	
Builder tradesman	15		Furrier	6	
Business man	16		Gambler	1	
Butcher Buyer	31		Garage man	î	
buyer	0		Gardener	7	
abinetmaker	8		Garment cutter		
anvassers	2		Glass blower	3	
ap maker	1		Glass cutter	2	
Carpenter	121		Glove maker	·····i	
aterer	- 1		Glazier	î	
Charity worker	28		Grinder (cutlery)	9	
hemist	28	*******	Guard	5	
igar maker	20	4	Gunner	1	
lergyman	3				
lerk	147	10	Hack driver	4	
lown	1		Hairdresser		
oachman	3	******	Harness maker	2	******
Coal dealer	1 2		Horse dealer	4	
coal minerconductor (street railway)	2		Hospital attendant	6	
Conductor (railroad)	19	*******	Hostler	3	
oncrete worker	1		Hotel boy	1	
onfectioner	2	2	Hotel manager	9	
Contractor (building)	17		Housekeeper		4:
onvict	1	*******	Housewife		55 15
ook	45	14	House worker		13
CooperCustodian	1		Ice-cream maker	1	
ustoundi			Iceman	2	
Dairyman	5		Inspector	8	
Dentist	6	0	Inspector (arms)	2	

Table II.—Occupations of inmates of 65 State institutions for the insane whose insanity was caused by syphilis. (The list covers occupations of 4,441 men and 1,195 women)—Continued.

he

nilis ner

in-195

nale.

12

4

....

	Nu	mber.		Nur	nber.
Occupation.	Male.	Female.	Occupation.	Male.	Fema
Inspector (street railway)	1		Railroad employee	112	
Interpreter	2		Railroad employee (street)	6	
Ironworker	25		Rancher. Real estate agent.	38	*****
Janitor	10		Real estate agent	2	*****
Jeweler	8	*******	Real estate broker	4	
Jockey	2		Roofer Rough rider Rubber worker	5	
lunk dealer	3		Rough rider	1	
Kite maker	1			1	
	1 000	21	Sailor	31	
Laborer Lather	1,063	21	Salesman	178	****
Laundry employee	4		Saleswoman		
Launderer Laundress	5		Saw maker	2	
Laundress		25	Scavenger	1	
LawyerLeather worker	33	i	Schoolgirl		
Leather Worker	7 3	.1	Serub woman		
LinotyperLithographer	2		Shipping clerk	8	
Livery-stable employee	8	*******	Scanistress Shipping clerk Ship fitter Shipyard worker Shoemaker Shop hand	4	
Livery-stable employee Locksmith	. 2		Shipyard worker	1	
Longshoreman	4		Shoemaker	39	
Loom fixer	1	******	Shop hand	2	
Lumberman	20		Silver bufferSlater	1	
Machinist	116		Soan maker		*****
Manager	1		Soap maker	18	
Manicurist		1	Stable hand. Station agent (railroad) Steam fitter Stenographer	1	
Manufacturer	2		Station agent (railroad)	1	*****
Mason	25		Steam fitter	6	
Mechanic Merchant	56 75	1	Stevedore	6	
Messenger	2		Steward	8	
Metal worker	33		Stock dealer	1	
Meter reader	1		Stonecutter	3	
Milkman	2	*******	Straw worker	1	
Milliner Mill hand	1	8	Student	1	
Miner	22 85	13	Superintendent (mill)	1	*****
Motorman	4		Supertite data (mm)		
Molder	24		Tailor	38	
Munition worker	1	2	Teacher	5	
Musician	33	2	Teamster	76	
Naval officer	7		Telephone factory worker Telephone installer	28	
Your aront	i		Telephone installer	3	
Newspaper employee	6			2	
Newspaper reporter	5	10	Theatrical worker Ticket agent (railroad)	5	
Nurse	1	10	Ticket agent (railroad)	1	*****
Oiler			Timekeeper	2	*****
Oiler Optician	2		Toolmaker	7	******
Oysterman	2		Tramp	6	
			Typewriter aligner Typesetter	1	
Packer	3	1	Typesetter	4	*****
Painter Paper hanger	96		Undertaker	3	
Paper worker	0		Undertaker	2	
Peddler	15		Upholsterer Usher	i	
PhysicianPhotographer	23				
Photographer	8		Veterinary surgeon	4	
Piano maker	1		Waiter	53	
Pilot	1	*******	Waiter	33	
Plasterer	9	*******	Watchmaker Watchman	12	
Plumber	27	*******	Weaver	ii	
Policomon	18		Well digger	1	
Post office employee	6		Wire maker	1	
Postman Post-office employee Porter Presser	21		Whip ma'ter Woo'lwo'ker	1 15	
Presser	3		TI OO IN O. ACI	19	
TIUST	1		Yardmaster	1	
rinter	31				
romoter	1		None state 1	241	1
Protitute		22	Total	4 444	4 4
Publisher	1		Total	4, 441	1, 1

The first impression made by the table of occupations is that of diversity, 266 different occupations being represented. They include all varieties of work, and the occupations range from unskilled laborers to tradesmen, skilled craftsmen, business men, artists, and professional men. The seven classes of men contributing the highest numbers are as follows:

Laborers	1,063
Farmers	236
Salesmen	178
Clerks	
Carpenters	121
Machinists	116
Railroad employees	

Among the women the following occupations give the highest number:

Housewives	. 551
House workers	. 153
Domestics	. 93

In interpreting these figures it must be remembered that those classes of occupations showing the highest number of persons insane because of syphilis are, for the most part, the preponderating occupations of the country. That is, the fact that 1,063 laborers and 236 farmers were found to be insane because of syphilis does not mean that laborers are more apt to go insane because of syphilis than farmers, as there are many more laborers than farmers in the population of the country.

It is believed that the only deduction that can justly be made from the list of occupations is that those who go insane from syphilis are not confined to any one class, but that they are drawn from

practically all classes and all occupations.

In conclusion, attention should be called to the fact that this paper deals only with the incidence of mental disorders due to syphilis arising among persons under public care. As a sequel to this article it would appear to be valuable for some studies to be made in regard to the duration of insanity due to syphilis and the length of stay in the hospital in order that some deductions may be drawn to show economic losses.

REPORT ON INVESTIGATION OF TYPHOID FEVER EPIDEMIC AT GREENEVILLE, TENN.¹

By C. N. HARRUB, Associate Sanitary Engineer, United States Public Health Service, in cooperation with the Tennessee State Board of Health.

During the period April 6 to June 20, 1920, an outbreak of typhoid fever occurred in Greeneville, Tenn., with a total of 61 cases and 7 deaths (1 case and 1 death occurring in the county outside the town

¹ From report made by the writer to the State Board of Health of Tennessee.

of Greeneville); and, in response to a request from the officials of that city, I made an investigation into the cause of the epidemic.

t of

ude lled

and

est

est

ose

ane

pa-

236

ean

han

pu-

ade

ilis

om

his

to

to be

the

be

HC

ition

oid

d 7

wn

Water Supply.

As the previous history of the water supply showed it to be of inferior quality, an examination of the supply, with sanitary survey, was made as the first step in the investigation.

The water is obtained from a spring which issues from under a limestone ledge almost in the center of the city. It is located in the bottom of a basin toward which a large part of the town drains. A concrete pool has been constructed at the spring, but it affords very little protection against contamination. A small house is built over the intake, but the pool is open. From this upper pool the water is piped to a second open pool at the pumping station, located on the edge of a small creek which is the main drainage channel for the city. From this pool the water is pumped to the reservoir, whence it flows by gravity to the city. During the epidemic of typhoid fever in 1913 a hypochlorite plant was installed to disinfect the water before it was pumped into the reservoir. The hypochlorite solution was discharged into the pool at the pumping station, a few inches from the end of the suction main.

The plant is owned by the city, and about 90 per cent of the people are served with city water. The present daily consumption is about 500,000 gallons. During the dry weather the supply is not sufficient to meet the demands and it is necessary to restrict the use of water to necessary purposes only.

Sanitary Survey.

The sanitary survey revealed a very unsatisfactory condition. As stated above, the location of the spring is extremely bad. in practically the lowest spot in town and is surrounded by dwellings. Previous to the establishment of a public water supply, private wells were used. Some of these have been proved by test to be directly connected with the source of supply of the spring. During the digging of one of these wells, the owner noted that while finishing the well the spring ran muddy; and in another instance dye placed in the well came out through the spring. Surface drainage from a large area runs directly to the spring. A concrete storm sewer has been built which discharges into the small creek just below the spring. In times of heavy rain this creek floods back into the spring. valve has been put on a pipe which passes through the concrete wall surrounding the pool, but it is tipped back on the pipe, and therefore does not close. It is very doubtful whether it would be of any advantage if put into operation, as it would not close tight.

Since the installation of the public water supply many wells have been abandoned, and others have been used as cesspools. The one tested with dye was so used, and, as shown by the test, was contributing pollution directly to the spring. Cesspools were in common use in the drainage area of the spring, and undoubtedly all are polluting the underground waters which find their outlet at the spring.

At the lower pool near the pumping station there is only a concrete wall between the water supply and the polluted creek. There are several open pipes through this wall, and when the creek is flooded these pipes are sometimes submerged. At such times cotton waste is stuffed into the pipes to keep the creek water out as much as possible; but this affords very poor protection against so polluted a stream.

The hypochlorite plant, which was relied upon to safeguard the people of the city against typhoid fever and other water-borne diseases, originally consisted of a mixer, two solution tanks, and an orifice box. One of the solution tanks has been out of commission for the past three years, and it has therefore been necessary to rely on one solution tank. This necessarily prevents proper operation of the plant, as it does not allow any opportunity for the solution to settle. Consequently, the suspended lime passes to the orifice box, where it may partially clog the orifice and reduce the flow of the solution and result in only partial disinfection of the water. The lime also gives trouble in the solution feed pipes. It has been customary at this plant to keep the solution stirred, so that even were the two solution tanks in service, these troubles would be experienced. It was apparent that the hypochlorite plant was not doing the work it was thought to be doing and was not sufficient protection to the water consumers.

The spring has been known to be contaminated for a long time. According to the superintendent of the waterworks, all the analyses for the past eight years have shown the presence of sewage organisms. Only three of these analyses are available, the results of which are shown below:

September 22, 1917:	
Bacteria per c. c., 37° C	
Bacteria per c. c., 20° C	580
B. coli present.	
July 7, 1919:	
Bacteria per c. c., 37° C	3,000
B. coli, 10 c. c	5+,0-
B. coli, 1 c. c	1+,0-
May 19, 1920:	
Bacteria per c. c., 37° C.	6,440
B. coli, 10 c. c	5+,0-
90 11 -	

Samples were sent to the State board of health laboratories just previous to my arrival in Greeneville. The information sent with the samples as to the source is not sufficient to show whether they are all from the public supply; but two of them marked "Mason" and "Spring" are very bad, while two marked "Tucker" and "Davis" are good. The results of analyses of these samples are shown in the following table:

Analyses of samples of water.

	Source.				
	Davis.	Tucker.	Spring.	Mason.	
Bacteria per c. c., 20° C. Bacteria per c. c., 37° C.	44 30	110 90	1,500 1,200	800 670	
B, coli, 10 c, c	0+,5-	0+,5-	5+,0-	4+,1-	
B. coli, 1 c. c	0+,3-	0+,3-	2+,1-	2+,1-	
B, coli, 0.1 c. c	0+,3-	0+,3-	1+,2-	1+,2-	

On account of the condition of the water supply and the unreliability of the hypochlorite plant, steps were immediately taken to provide positive disinfection of the supply. An emergency liquid chlorinator had been taken to Greeneville from the State board of health, and through the courtesy of Dr. Yancy, city health officer of Kingsport, a cylinder of liquid chlorine was obtained from that place and put into service as soon as possible. When the chlorinator was operating satisfactorily, the hypochlorite plant was discontinued.

A visit was paid to each of the practicing physicians to get a list of their cases of typhoid fever during the outbreak. The dates of onset of the various cases are shown in the accompanying table.

In addition to the 60 cases and 6 deaths recorded in the table, there was one case in the county outside of Greeneville which was fatal, making a total of 61 cases and 7 deaths during the epidemic. This corresponds to a morbidity rate for the epidemic period of 2,033 per 100,000 population, a death rate of 233 per 100,000 population, and a mortality percentage of 11.5.

A study of the data collected reveals the following facts: One hundred per cent of the cases used city water for drinking, all or part of the time, and 84 per cent used it exclusively. Four, or 13 per cent, used cistern water in part, and one used water from a spring at his home in the country. In no case was the drinking water boiled previous to the appearance of the disease.

Investigation into the milk supply and the use of uncooked vegetables and ice cream showed that these were unrelated to the outbreak.

Nineteen, or 61.3 per cent, of the cases investigated occurred in houses connected to the sewer; 10, or 32.3 per cent, were not connected to the sewer; 1 lived beyond the limits of the sewerage system, and for 1 the information was not obtained. In the 10 cases not connected to the sewer, open surface closets were used. None

h as ded a l the porne d an ssion rely ation

con-

mon

iting

crete

e are oded vaste

box,
f the
The
cuswere
nced.
work
o the

on to

time. lyses isms.

> 600 580

3,000 +,0-+,0-

6,440 +,0-+,0-

h the

of these was fly proof or in a sanitary condition. In every instance, except the one from the country, the street on which the patient lived is sewered, and proper means of disposal of sewage is provided. In three instances where the sewer connection had been made, a surface closet was still maintained on the premises. One of those, however, was not used at the time of the investigation.

Dates of onset of cases of typhoid fever in Greeneville, Tenn., and number of cases by weeks, Apr. 6 to June 26, 1920.

Cases by date of onset.		Number of cases by weeks.				
Date.	Num- ber of cases.	Week ended—	Num- ber of cases.			
Apr. 6 Apr. 15 Apr. 20 Apr. 20 Apr. 20 Apr. 20 Apr. 30 May 1 May 2 May 3 May 4 May 5 May 7 May 8 May 10 May 15 May 16 May 17 May 19 May 19 May 21 May 22 May 23 May 27 May 29 May 29 May 29 May 30 June 1 June 2 June 4 June 5 June 6 June 7 June 8	1 1 2 1 5 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	Apr. 10 Apr. 17 Apr. 24 May 1 May 8 May 15 May 22 May 29 June 5	100			
June 10. June 12. June 17. June 18. June 20.	1 1 1 1	June 12. June 19. June 26.	2 11 2 1			
Total	60	***************************************	63			

¹ One of these cases died. Total deaths, 6,

Only two of the cases had been away from the city during the two weeks previous to the onset of the disease. One of these had visited Bristol and had been sick in bed two days while there.

Three instances were found where more than one case occurred to the family. In one of these there were five cases, three of which were possibly secondary cases from the first case. The mother was first taken sick; 5 days later the father was taken down, and 15 days after the mother became sick two of the children became ill and a third child about two weeks later. There is no sewer connection

² Chlorinator installed June 12.

e.

ed

In

r-

W-

by

n-

of

1 2 1

8

10

... 4

... ...

5

4

ii

...

2 ii

60

WO

ed

ed

ch

as 15

nd

on

from the house where this family lives, and the excreta were discharged on the ground. A case of typhoid occurred next door to this place 10 days after the two children were taken sick. So far as ascertained this was the only place where a case occurred in the immediate neighborhood of a previous case where a surface toilet was used.

So far as learned none of the persons afflicted had ever been vaccinated with antityphoid vaccine, although the question was not asked in every case. Vaccination among other members of the family was very generally practiced after the occurrence of the first case in the An attempt was made to arrange for free vaccination for those persons unable to pay, provided they furnished their vaccine. Each of the practicing physicians was to give one hour per week to Later advices indicated that this scheme did not work out as planned, and practically nothing was done.

On account of a local feeling that the ice furnished by the Greeneville Ice Co. might be responsible for the typhoid outbreak a special inspection of the ice plant was made. The raw-water system is used in manufacturing the ice; that is, the water is not distilled before use. Instead, it is kept agitated by air to prevent the inclusion of foreign

matter during the freezing process. City water is used.

A dual connection between the city water and the water from the polluted creek mentioned earlier in this report was found. rangement was made so that either city or creek water could be used for condensing the ammonia. The city water used in ice making is drawn from the same pipe only about 10 feet from the valve separating the two waters, and if for any reason the city water was cut off or failed while the creek water was being used for condensing, the creek water might be drawn into the filling tank and used in making ice. It was urged that this dual connection be done away with and city water used altogether for condensing purposes.

A study of the locations of the cases indicates a general source of infection rather than fly dissemination from local foci. One thing which at first was without apparent explanation was that very few cases of typhoid occurred on the east side of Main Street. deavoring to determine the reason for this it was learned that there are several small springs in that part of town, at least two of which are used quite generally by people in the vicinity as a source of These springs were examined and samples of the drinking water. water taken to the laboratory for analysis in order to compare them with the city water. One of these springs is located on the old Andrew Johnson property and the other is known as the Parks The former is poorly protected against pollution, a tile pipe placed vertically in the spring to prevent the sides from caving in being the only attempt at protection. The Parks spring has been concreted and housed, but steps lead down to the level of the water

and polluting matter may be carried in on the feet of people going after water. The analyses of these waters are as follows:

	Johnson.	Parks.
Bacteria per c. c., 20° C	1, 100	500
Bacteria per c. c., 37° C	1,090	420
B. coli, 10 c. c	4+,1-	3+, 2-
B. coli, 1 c. c	2+, 1-	1+, 2-
B. coli, 0.1 c. c	1+,2-	0+,3-

Although these analyses indicate that the water from these springs is far from pure, it is much better than the city water, especially that from the Parks spring. The absence of typhoid fever in that part of the city is probably due to the use of water from these springs. The presence of sewage organisms in both springs shows them to be potentially dangerous, and it should be borne in mind that the appearance of a single case of typhoid fever in the area contributing to these springs might infect them and thus spread the disease among all the users of this water.

The city is from 85 to 90 per cent sewered, and probably 93 per cent of the people could be served by the sewers; yet only about one-third of the houses are connected. The city passed an ordinance which requires connection wherever the sewers are available; but it has not been enforced, mainly because of the inadequacy of the water supply. During the dry summer months the supply has not been sufficient for the demands for the past few years, and increased use of inside flush closets would still further deplete the supply and cause more serious shortage.

The inspection of the waterworks plant revealed immediately the danger of incomplete disinfection of the water and of the occurrence of an epidemic of water-borne disease. This was explained to the board of water commissioners at a special meeting called for that purpose, and the necessity for immediately securing and installing new and efficient apparatus for constantly sterilizing the water was shown. As a result of this meeting, the superintendent was authorized to order a liquid chlorinator and two cylinders of chlorine. These orders were sent immediately. In the meantime the emergency apparatus furnished protection to the city.

It was also explained to the commissioners that providing proper sterilization of the water is only the first step toward securing safe water, and that filtration, followed by disinfection, is necessary if a safe, as well as a clean, water is to be furnished at all times.

In response to inquiry as to the comparative cost of operation of a liquid chlorinator and the use of hypochlorite of lime for disinfecting the water, it developed that the estimated cost for liquid chlorine was about four times the actual amount paid last year for hypochlorite, notwithstanding the fact that the cost per pound for liquid

ing

arks.

 $\frac{500}{420}$

,2-

2 -

3-

ngs

ally hat

igs.

be

the

ing

ong

per

out

nce t it

ter

een

use

use

the

ur-

red

for.

in-

the

ent

of

me

oer

afe

fa

fa

ng

ne

lo-

iid

chlorine is less than two-thirds the cost per pound of available chlorine in the hypochlorite. The only inference that could be drawn from this is that instead of using an average of 6 pounds of hypochlorite per day, as stated, the actual average was about 1 pound per day. This would correspond to about 0.07 p. p. m. available chlorine, which would not be sufficient to produce the required disinfection. The above figure is based on 33\frac{1}{3} per cent available chlorine, and is about the maximum that could be expected.

Conclusions,

The following conclusions were drawn as a result of this investigation:

1. The city is suffering from an epidemic of typhoid fever which is undoubtedly caused by a polluted water supply. The data collected indicate that the water supply is the responsible agent.

The water supply of Greeneville is grossly polluted and is a constant and serious source of danger to the health of the community.

3. The location of the spring from which the water is obtained is such that it is practically impossible to prevent the access of polluting matter.

4. The spring is the outlet for the ground water under a large portion of the city.

5. On account of the limestone formation underlying the city there is practically no natural purification of the seepage from open-surface closets and cesspools before reaching the ground water, and the ground water underneath the entire city is probably polluted by sewage.

6. The old hypochlorite plant which has been relied on to protect the city against water-borne diseases is worn out, unreliable, and not a sufficient safeguard.

7. The hypochlorite plant has not been operating as efficiently as it was believed to be and has undoubtedly allowed water only partially disinfected to enter the mains.

8. The installation of apparatus to insure constant and efficient disinfection of the water is immediately necessary.

9. Filtration of the water is necessary if a clean as well as safe supply is to be provided.

10. The present supply is entirely inadequate, and provision for a permanent, adequate supply should be made as soon as possible.

11. The present storm sewer which discharges into the creek just below the spring is a menace to the health of the community on account of the fact that in times of heavy rain the storm water is forced back into the spring which supplies the city with water.

12. The city has averaged from 30 to 35 cases of typhoid fever a year for the past eight years, and during all that time the spring has been known to be polluted. Typhoid fever will continue to be prevalent until efficient purification of the water supply is provided.

13. The town is well sewered, but on account of an inadequate

supply of water the sewerage system is very little used.

14. The present practice of using cesspools and surface privies

tends to a continuance of typhoid fever in the community.

15. Two things are therefore absolutely necessary if the city is to obtain any permanent relief from the scourge of typhoid fever: (1) An adequate and safe water supply; (2) compulsory use of the sewers and abandonment of all cesspools and privies in the sewered districts.

Recommendations.

The following recommendations were made for the improvement of the water supply and to aid in stamping out typhoid fever from Greeneville:

1. Install immediately a liquid chlorine plant and insure thorough disinfection of the water before delivery to the citizens.

2. Secure as soon as possible a temporary additional supply to prevent a shortage of water during the coming summer and fall.

3. Take steps immediately to provide for filtration of the water supply as the only means by which the water can be made clean as well as safe.

4. Proceed at once with the work of securing an adequate supply of water, either from the Nolichucky River or from some other source which can be depended upon for an unfailing supply. Such supply should be filtered and disinfected if from any surface source, and the filtration plant recommended above for the present supply would be available for that purpose.

5. As soon as the temporary additional supply of water is obtained, compel connection to the sewer from every house on sewered streets; remove all surface privies and fill all cesspools in the same sections.

These recommended improvements can not be too strongly urged. Money spent in improving the water supply and eliminating typhoid fever is well invested and will pay big returns. The present epidemic of typhoid has cost the city more in actual money than would the measures which would have prevented it, to say nothing of the suffering and deaths. It is much more expensive to maintain typhoid fever in the city than to get rid of it, and no better investment can be made by the city than that of buying freedom from this preventable disease.

DEATHS DURING WEEK ENDED JAN. 8, 1921.

[From the Weekly Health Index, Jan. 11, 1921, issued by the Bureau of the Census, Department of Commerce.]

Deaths from all causes in certain large cities of the United States during the week ended Jan. 8, 1921, infant mortality, annual death rate, and comparison with corresponding week of preceding years.

			ended 8, 1921.	Average	Deaths under 1 year.			t mor- y rate.3
City. pop	Estimated population, July 1, 1921.	Total deaths.	Death rate.	Average annual death rate per 1,000.3	Week ended Jan. 8, 1921.	Pre- vious year or years.2	Week ended Jan. 8, 1921.	Corresponding week, 1919.
Akron, Ohio Albany, N. Y Atlanta, Ga Baltimere, Md Birmingham, Ala Boston, Mass. Bridgeport, Conn Buffalo, N. Y Cambridge, Mass. Camden, N. J Chicago, Ill	229, 195 115, 071 207, 473 751, 537 185, 514 757, 476 149, 502 518, 568 119, 169 119, 672 2, 780, 086	37 27 55 205 61 211 39 127 31 25 671	8, 4 12, 2 13, 8 14, 2 17, 1 14, 5 13, 6 12, 8 14, 7 10, 9 12, 6	6.5 C 17.8 C 18.0 A 18.4 A 17.5 A 22.2 A 20.2 C 15.0 A 10.7	4 3 6 30 10 23 6 22 7 4 117	C 4 C 10 A 30 A 8 A 44 A 8 C 28 A 2	38 67 84 62 76 85 125	98 97 88 110 70
Cincinnati, Ohio. Cleveland, Ohio. Columbus, Ohio. Dallas, Tex Dayton, Ohio. Denver, Colo.	403, 316 831, 132 245, 358 165, 282 159, 586 263, 010	131 180 68 38 24 99	16. 9 11. 3 14. 5 12. 0 7. 8 19. 6	C 20.1 C 16.4 C 20.1 A 13.5 C 18.0 A 16.1	10 17 4 4 5 6	C 18 C 44 C 13 A 3 C 6	66 46 46 82	88 95 94 89
Detroit, Mich	1,070,520 120,668 141,197 144,108	262 43 34 33	12.8 18.6 12.6 11.9	C 14.7 C 14.4	58 4 4 3	C 2 4	110 60 68	97 119 85
Indiamapoits, Ind. Jersey City, N. J. Kansas City, Kans. Kansas City, Wo. Los Angeles. Calif. Louisv Ile, Ky. Lowell, Mass. Milwankee, Wis.	325, 215 302, 511 103, 793 336, 157 610, 259 236, 683 113, 435 468, 386	92 82 27 74 196 72 44 80	14. 8 14. 1 13. 6 11. 5 16. 7 15. 9 20. 2 9. 9	C 17.0 C 15.3 C 18.5 A 15.4 C 17.4 A 18.1 A 13.7	18 18 4 16 17 10 8	C 13 C 14 C 6 A 13 C 5 A 6 A 21	95 80 115 129 68	198 67 96 124 101
Minneapolis, Minn. Na-hville, Tenn. New Bedford, Mass. New Haven Conn	392,717 119,536 125,012 166,836 394,875	110 43 29 46 150	14.6 18.8 12.1 14.4 19.8	C 11.8 C 17.0 A 14.2 C 19.1 A 22.9	14 7 8 9	C 13 C 3 A 8 C 6 A 21	123 107	65 122 73
New Orlcans, La. New York, N. Y Newark, N. J Norfolk, Va. Oakland, Calif. Omaha, Nebr	5, 753, 141 424, 529 121, 260 226, 587 197, 066	1,409 120 32 63 37	12.8 14.7 13.8 14.5 9.8	C 16.0 C 18.5 A 14.3 C 11.5	184 22 3 4 4	C 241 C 19 A 5 C 3	72 53 51	108 61
Philadelphia, Pa. Pittsburgh, Pa. Portland, Greg. Providence, R. I. Richmond, Va.	1, 865, 494 596, 241 264, 859 239, 645 175, 686	562 194 48 78 66	14. 0 17. 0 9. 5 17. 0 19. 6	C 22.6 C 8.1 C 17.5 C 18.4	61 28 6 8 12	C 37 C 2 C 5 C 6	73 99 60	91 114 69
Providence, R. 1 Richmond, Va Rochester, N. Y. St. Louis, Mo. St. Louis, Mo. Salt Lake City, Utah.	305, 344 786, 164 237, 661 121, 595	201 67 36	9. 1 13. 3 14. 7 15. 4	C 9.4 C 15.7 C 12.2 A 15.8	10 23 6	C 6 C 20 C 10	78 60 139	74 68 77
San Francisco, Calif	522, 546 327, 637 104, 174 135, 559	128 62 23 36	12, 8 9, 9 11, 5 13, 8	C 13, 8 A 11, 2 C 9, 0	11 7 1 4	C 9 A 7 C 1	64 58 22 60	62 55 55 84
Syracuse, N. Y. Toledo, Ohio. Trenton, N. J. Washington, D. C. Wilmington, Del.	177, 184 253, 632 122, 760 454, 026 113, 408	57 72 33 136 41	16. 8 14. 8 14. 0 15. 6 18. 9	C 14.7 A 15.3 A 22.0 A 16.8 C 18.3	7 9 3 23 7	C 5 A 9 A 6 A 12	84 91	91 90 85
Worcester, Mass Yonkers, N. Y Youngstown, Ohio	184, 955 103, 381 139, 432	52 21 34	14. 7 10. 6 12. 7	C 19.1 A 10.3	7 4 11	C 7 A 3	75 91 139	92 80 99

er a

ring

be.

ded. iate

vies

s to (1) rers cts.

ent om

igh

to

ter as

oly rce oly he be

ed, ts; ns. d. id nt an ng in tis

¹Annual rates per 1,000 population.

² "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1918.

³ Cities left blank are not in the registration area for birtis.

⁴ Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and stimated births for 1920.

⁴ Data are based on statistics of 1915, 1916, and 1917.

Summary of information received by telegraph from industrial insurance companies for week ended Jan. 8, 1921.

Policies in force	45, 142, 899
Number of death claims	7, 362
Death claims per 1,000 policies in force, annual rate	

PRINCIPAL CAUSES OF DEATH, OCTOBER AND NOVEMBER, 1920.

The accompanying table is reprinted, by permission, from the Statistical Bulletin of the Metropolitan Life Insurance Co. for December, 1920. The figures are based on a strength of approximately 13,000,000.

Although these rates apply to a selected group, they give comparative mortality conditions for the periods covered.

Death rates (annual basis) per 100,000 for principal causes, October and November, 1920, and year 1919.

[Industrial Department, Metropolitan Life Insurance Co.]

	Rate per 100,000 lives exposed.				
Cause of death,	November, 1920.	October, 1920.	Year 1919.		
Total, all causes	813.7	793.7	1,063.0		
Typhoid fever	9.0	10.6	7.:		
Measles		1.2	3.		
Scarlet fever	6.8	2.7	3.5		
Whooping cough		4.9	3. 3		
Diphtheria		22.1	20.5		
Influenza	5.5	5.6	96.9		
Tuberculosis (all forms)	109.7	115.1	156.		
Cancer	67.7	71.9	67.0		
Meningitis (all forms)		4.4	6.		
Cerebral hemorrhage		50.6	59.8		
Organic diseases of heart		94.2	113.9		
Pneumonia (all forms)		37.9	117.5		
Other respiratory diseases	14.6	12.1	17.0		
Diarrhea and enteritis	14.3	22. 2	16.9		
Bright's disease	63.0	61.7	73.		
Puerperalstate	14.9	17.2	20.0		
Suicides	5.8	6.8	6.8		
Homicides	5.1	6.4	6.9		
Other external causes (excluding suicides and homicides)		56.4	80.4		
Traumatism by automobile	14.5	13.9	10.7		
War deaths	. 4	.1	16.6		
All other causes	191.0	189.8	184. 9		

PREVALENCE OF DISEASE.

for

399

362 8. 5

20.

he nly

a-

10.

9.

3.0

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraph's Reports for Week Ended Jan. 15, 1921.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA.		connecticut—continued.	
Ca	1968.	Cas	163.
Chieken pox	33	Conjunctivitis (infactious)	2
Diphtheria	13	Diphtheria:	
Hookworm	10	Bridgeport	6
Mumps	11	Hartford	20
Scarlet fever	14	New Britain	17
Smallpox: •		New Haven	14
Jefferson County	60	Seattering	43
Scattering	28	German measles	
Tuberculosis	19	Influenza	
Typhoid fever	8	Measles:	
**		Canton	31
ARKANSAS.	0.0	New Britain	68
Chicken pox	35	Scattering	
Diphtheria	47	Mumps.	
Influenza		Pneumonia (lobar)	
Malaria	98	Scarlet fever:	00
Measles		Bridgeport	12
Ophthalmia neonatorum	1		14
Pellagra	5	Meriden (city)	
Scarlet fever	18	New Haven	9
Smallpox	15	Waterbury	
Trachoma	3	Scattering	75
Tuberculosis	14	Septic sore throat	1
Typhoid fever	15	Tetanus	1
Whooping cough	42	Trachoma	1
		Trichinosis	1
Influenza	23	Tuberculosis (all forms)	
Smallpox;	20	Whooping cough	88
Sacramento	18		
	50	DELAWARE.	
San Francisco	12	Chieken pox	8
Los Angeles		Diphtheria	4
Oakland	8	Influenza	12
Scattering	55	Malaria	1
Typhoid fever	3	Measles	2
Typhus fever:		Mump3	2
Los Angeles	1	Pneumonia.	9
Sierra Madre	1	Searlet faver	16
CONNECTICUT.			6
		Tuberculosis	2
Cerebraspinal meningitis	2	Typhoid fever	-
Chicken pox	52	Whooping cough	22
945499 91 9	18	3)	

FLORIDA.		towa-continued.	
Ca	ses.	Small pox: Cas	ses.
Cerebrospinal meningitis	1	Dubuque	
Diphtheria	33	Ossian	
Influenza	3	Ottumwa	
Malaria	7	Shenandoah	
Pneumonia	5	Scattering	123
Searlet fever	1	KANSAS,	
Smallpox			70
Typhoid lever		Chieken pox	78
GEORGIA.		Diphtheria	
Chicken pox	46	Influenza	9
Diphtheria	17	Measles	
Dysentery (bacillary)	1	Mumps	9
Dysentery (amebic)	1	Ophthalmia neonatorum	1
Hookworm	9	Pneumonia	35
Influenza	24	Scarlet fever	
Malaria	34	Smallpox	
Measles	64	Tuberculosis	
Mumps	3	Typhoid fever	
Pneumonia	23	Whooping cough	22
Scarlet fever	6	LOUISIANA.	
Eeptie sore throat	10		
Smallpox	-	Diphtheria	16
Tetanus		Scarlet fever	
Tuberculosis (pulmonary)		Smallpox	
Typhoid fever	14	Typhoid fever	15
Whooping cough		******	
		MAINE.	
ILLINOIS.		Chicken pox	45
Cerebrospinal meningitis-Chicago	3	Diphtheria	
Diphtheria:		German measles	3
Chicago	258	Influenza	6
Cook County-New Trier Township	8	Measles	
Decatur	8	Mumps	3
Scattering	92	Pneumonia	8
Influenza		Scarlet fever	37
Lethargic encephalitis:		Smallpox	2
Chicago	3	Tuberculosis	17
Lagrange	1	Typhoid fever	3
Pneumonia	222	Whooping cough	35
Scarlet fever:		***************************************	
Bloomington	13	MARYLAND,1	
Champaign	9	Chicken pox	134
Chicago	198	Diphtheria	74
Fast St. Louis	8	German measles	3
Normal	43	Influenza	79
Oak Park	16	Lethargic encephalitis	2
Rockford	14	Measles	88
Springfield	67	Mumps	25
Scattering	139	Ophthalmia neonatorum	1
Smallpox:		Pneumonia (all forms)	128
Chicago	11	Poliomyelitis	1
East St. Louis	19	Scarlet fever	85
Madison	9	Septic sore throat	5
Rockford	16	Smallpox	
Stephenson County-Rock Grove Town-		Tetanus	1
ship	13	Tuberculosis	
Vanda'ia	11	Typhoid fever	
Wayne County-Elm River Township	9	Whooping cough	117
Scattering		WASSACHTOFFE	
Typhoid fever	14	MASSACHUSETTS,	
IOWA.	1	Cerebrospinal meningitis	6
	0=	Chicken pox	
Diphtheria		Conjunctivitis (suppurative)	6
Scarlet lever		Diphtheria	240
1 Wee	k end	ed Friday.	

MASSACHUSETTS-continuel.	NEBRASKA—continued.
Cases.	Smallpox: Cases.
German measles	Bloomington
Influenza 63	Dalton 9
Malaria 1	Merrick County 11
Measles 489	Omaha
Mumps 81	Wilber 10
Ophthalmia neonatorum 33	Scattering 71
Pellagra 1	Tuberculosis 2
Pneumonia (lobar)	Typhoid fever 4
Poliomyelitis 3	Whooping cough 9
Scarlet fever	NEW JERSEY.
Septic sore throat 5	NEW JERSEI.
Trachoma 2	Cerebrospinal meningitis 5
Tuberculosis (all forms)	Chieken pox 373
Typhoid fever 4	Diphtheria
Whooping cough	Influenza
MINNESOTA.	Measles 94
Smallpox:	Pneumonia 194
Kanabec County-Kroschel Township 15	Scarlet fever 298
Kandiyohi County-Raymond Township. 15	Smallpox 6
Polk County-Erskine Village 9	Typhoid fever 6
Wright County-Walcott To ynship 11	Whooping cough 224
Scattering 79	
	NEW YORK.
MISSISSIPPI.	(Exclusive of New York City.)
Diphtheria	· ·
Scarlet fever 7	Cerebrospinal meningitis:
Smallpox	Buffalo 1
Typhoid fever 3	Colonie 1
MISSOURI.	Elba 1
Chicken pox 95	Fort Covington 1
Diphtheria199	Grafton 1
Epidemic sore throat	Saratoga Springs 1
Influenza	Diphtheria
Measles 63	Influenza 103
Mumps	Lethargic encephalitis 1
Poliomyelitis 1	Measles
Scarlet fever 171	Pneumonia. 364
Smallpox 161	Poliomyelitis—Northumberland 1
Trachoma 7	Scarlet fever
Tuberculosis	Smallpox
Typhoid fever 7	Typohoid fever
Whooping cough 67	Whooping cough
MONTANA.	NORTH CAROLINA.
	Chicken pox
Cerebrospinal meningitis—Billings	Diphtheria
Diphtheria	German measles.
Scarlet fever	Measles
Smallpox	Searlet fever
Typhoid fever 1	Septic sore throat
NEBRASKA.	Smallpox
Cerebrospinal meningitis—Seward County 1	Typhoid fever
Chicken pox	Whooping cough
- Marie Production of the Control of	
Diphtheria: Omaha	оню.
	Smallpox:
Scattering	Allen County-Delpho:-Epidemic.
Measles:	Delaware County-Epidemic.
	Pike County-Epidemic.
	SOUTH DAKOTA.
Scattering	
	The state of the s
Scarlet fever:	
Dalton 9	Influenza 1 Measles 29
Franklin County	
Omaha	
Scattering	Scarlet fever

SOUTH DAKOTA-continued.	ses.	WASHINGTON—continued.	ses.
			-
Smallpox		Typhoid fever	-
Tuberculosis		Whooping cough	10
Typhoid fever	-	WEST VIRGINIA.	
Whooping cough	2	Diphtheria:	
TEXAS.		Wheeling	9
Chicken pox	57	Scattering	20
Diphtheria		Measles:	
Influenza		Bluefield	15
Measles		Charleston	100
Mumps		Wheeling.	29
Scarlet fever		Scattering	10
Smallpox		Scarlet fever	27
Trachoma		Smallpox:	
Typhoid fever		Clarksburg	8
Typhus fever—Taylor		Scattering	15
a y parties rever a layout	•	Typhoid fever	2
VERMONT.			
Chicken pox	31	WISCONSIN.	
Diphtheria		Milwaukee:	
Influenza	1	Chicken pox	54
Measles		Diphtheria	34
Mumps		German measles	1
Pneumonia	2	Influenza	1
Scarlet fever	21	Measles	20
Typhoid fever	8	Searlet fever	62
Whooping cough	65	Smallpox	19
		Tuberculosis	10
VIRGINIA.		Typhoid fever	1
Smallpox:	1	Whooping cough	9
Bland County	1	Scattering:	
Buchanan County		Cerebrospinal meningitis	1
WASHINGTON.		Chicken pox	158
Chicken pox	77	Diphtheria	113
Diphtheria	43	Influenza	80
German measles	1	Measles	194
Measles	20	Poliomyelitis	1
Mumps	3	Scarlet fever.	185
Pneumonia	1	Smallpox	246
Scarlet fever	65	Tuberculosis	
Smallpox	130	Typhoid fever	15
Tuberculosis	3	Wacoping cough	
District of Columbia and Missou	ri R	eports for Week Ended Jan. 8, 1921.	
		· porte ior in tell andea dain of itell	
DISTRIC	T OF	COLUMBIA.	
Ca	ses.	Cas	ins.
Chicken pox	45	Scarlet fever	37
Diphtheria	-	Smallpox	1
Influenza	2	Tuberculosis.	16
Lethargic encephalitis	1	Typhoid fever	2
Measles	15		21
			21
	MISSO	OURI.	
Cerebrospinal meningitis	1	Poliomyelitis	1
Chicken pox	139	Scarlet fever.	_
Diphtheria		Smallpox	
Epidemic sore throat		Trachoma	4
Influenza	51	Tuberculosis	34
Measles	60	Typhoid fever.	11
Mumps	28	Whooping cough	65
Ophthalmia neonatorum	1		0.0

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1920.										
California (October). California (November). District of Columbia (May). District of Columbia (September). District of Columbia (December).	1	474 582 40 34 96	72 49 3 1 50	80 36	191 307 82 8 34	1	14 4 2 1	374 474 96 22 102	388 588 12	130 68 5 34 26
Florida (December)	3 14 2 6	105 943 110 705	42 86 10 163	97	16 1, 876 50 326	6	31	37 919 303 718	60 14 449 702	42 42 8 20

RECIPROCAL NOTIFICATION.

Connecticut-December, 1920.

Cases of communicable diseases referred during December, 1920, to other State health departments by department of health of the State of Connecticut.

Disease and locality of notification.	Referred to health authority of—	Why referred,
Diphtheria: East Haddam, Conn.	State Department of Health, Albany, N. Y.	Patient arrived in East Haddam, Conn., from New York City, within incubation period of disease.
Haddam, Conn	State Department of Health, Trenton, N. J.	A small outbreak apparently was caused by a mild unrecognized case who arrived in Had- dam, Conn., from Jersey City, N. J.
Norwalk, Conn	State Department of Health, Albany, N. Y.	A day pupil of a White Plains, N. Y., school, became ill at his home in Norwalk, Conn.
Measles: New Britain, Conn	do	Two patients, recent immigrants, apparently infected on board ship, landed at New York and arrived ill at New Britain, Conn.
Pneumonia: Greenwich, Conn	do	Patient treated at Greenwich, Conn., hospital but was taken ill in Port Chester, N. Y.
Scarlet fever: Stonington, Conn	State Department of Public Health, Boston, Mass.	Patient apparently infected on a visit in Boston.
Plainfield, Conn	State Board of Health, Providence, R. I.	Patient apparently infected at a school in Providence, R. I.
Tuberculosis: Watertown, Conn	State Board of Health, Baltimore, Md.	Patient ill with tuberculosis lest Watertown, Conn., for Notcheliff, Md., for treatment.
Typhoid fever: Norwich, Conn	State Department of Public Health, Boston, Mass.	Patient returned home to Norwich, Conn., from Dorchester, Mass., and became ill with typhoid the same day.

ANTHRAX.

California, Nebraska, New York, and Ohio.

During October, 1920, two cases of anthrax were reported in California; during December, 1920, one case was reported in Nebraska; and during the week ended January 1, 1921, one case was reported at New York, N. Y., and one death was reported at Springfield, Ohio.

BERIBERI.

California-November, 1920.

During November, 1920, one case of beriberi was reported in California.

CEREBROSPINAL MENINGITIS.

City Reports for Week Ended Jan. 1, 1921.

The column headed "Average cases" gives the average number of cases reported during the corresponding week of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Average cases.	Average	Jan.	ended 1, 1921.	Place.	Average	Week ended Jan. 1, 1921.	
	Cases.	Denths.	Timee.	cases.	Cases.	Deaths.	
Alabama: Birmingham	(1)	1		Michigan: Detroit	(1)	3	2
Los Anceles		2		Omaha	(1)	1	1
Riverside	0	4	1	New York: New York	4	8	
Illinois: Elrin Kansas:	0		1	Ohio: Ashtabula Cleveland	(1) 0	1	
Kansas City Wichita	(1)	1	i	Oklahoma: Oklahoma City		1	1
Louisiana: New Orleans Maryland:	0	1	1	Tennessce: Nashville Texas:	(1)	2	
Baltimore	1	1		Dellas		1	1
Massachusetts: Bosten Salem Springfield	(1) (1)	2	1 1	Wisconsin: Milwaukee	(1) 0	5	5

¹ Average less than 1,

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 83; Monthly summaries by States, p. 87; and Weekly reports from cities, p. 96.

INFLUENZA.

City Reports for Week Ended Jan. 1, 1921.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama: Anniston			Illinois: Chicago	21	
Birmingham	4	2	Danville	21	
Mobile		i i	Kansas:	-	
Arkansas:			Kansas City	1	
Little Rock	1		Topeka	2	
California:			Louisiana:		
Los Angeles	5		New Orleans		1
Riverside		1	Maryland:		
Sacramento	2		Baltimore	20	
San Francisco	6	2	Cumberland	3	
Connecticut:			Massachusetts:	-	
Hartford	1		Boston	8	
New Britain	5		Brockton	1	
New Haven		1	Cambridge		
District of Columbia:			Fall River		
Washington	6		Winthrop	3	
Georgia:	0		Michigan:	9	
Atlanta	9		Detroit	4	

INFLUENZA-Continued.

City Reports for Week Ended Jan. 1, 1921-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Minnesota: Minneapolis. Missouri: Kansas City St. Charles. St. Louis. New Jersey: Garfield. Newark. Orange. Trenton New York: Albany. Binghamton. Cohoes. Mount Vernon. New York. Ningara Falls.	2 2 5 5 2 1 11 16 6 2 2 2 1 2 6 4 1 1 1 2 1	1 1 i	Ohio: Cincinnati Cleveland. Columbus Hamilton. Marion Springfield. Pennsylvania: Philadelphia. South Dakota: Sioux Falls. Texas: Dallas. Fort Worth. Virginia: Petersburg. Fairmont.	2 1 1 4 1	3 3 3 3 2 2

LEPROSY.

California-October, 1920.

During October, 1920, a case of leprosy was reported at Santa Paula, Calif., in the person of B. S., white, male, aged 50, born in Mexico. The disease was diagnosed clinically October 18, 1920, as tubercular leprosy. The patient has lived in the United States for three years and is reported quarantined with guard under the supervision of the city health officer awaiting deportation.

Also during October a case of leprosy was reported at Alameda County Hospital, Alameda County, Calif., in the person of J. G., white, female, aged 74, born in Switzerland. The disease was diagnosed clinically on August 20, 1920, and verified the following day bacteriologically as anesthetic leprosy. The patient has lived at various places in the United States for 35 years and is now in the isolated leper ward of the Alameda County Hospital.

LETHARGIC ENCEPHALITIS.

California, District of Columbia, Florida, and Oregon.

One case of lethargic encephalitis was reported in California during October, and four cases were reported during November, 1920. During May four cases were reported in Washington, D. C., and during December one case was reported in Florida. During the week ended January 1, 1921, one case and one death were reported in San Francisco, Calif., and two cases and one death were reported in Portland, Oreg.

MALARIA.

City Reports for Week Ended Jan. 1, 1921.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Arkansas: Little Rock California: Sacramento Georgia: Atlanta Brunswick	2 1 1 1		Kentucky: Louisville Louisiana: Alexandria Texas: Dallas	7	1

MEASLES.

See Telegraphic weekly reports from States, p. 83; Monthly summaries by States, p. 87; and Weekly reports from cities, p. 98.

PELLAGRA.

Charleston, S. C., and Dallas, Tex.

During the week ended January 1, 1921, one death from pellagra was reported at Charleston, S. C., and one case and one death were reported at Dallas, Tex.

PLAGUE.¹ Human Cases of Plague Reported.

Place.	Period covered.	Cases.	Deaths.	Remarks
Florida: Pensacola	Jan. 1 to 15	0	0	
Louislana: New Orleans	do	0	0	
Texas: Beaumont	do	0	0	

Plague-Infected Rodents.

Place.	Period covered.	Rodents found plague infected.
Florida: Pensacola	Jan. 1 to 15.	0
Louisiana: New Orleans	Jan 1 to 13	1 2
Texas: Beaumont Galveston	Jan. 1 to 15	0

¹ A summary of the reports re cived of the occurrence of plague and the finding of plague-infected rodents in the United States during 1929 was published in Public Health Reports, Jan. 7, 1921, p. 15.

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Jan. 1, 1921.

Place.	Cases.	Deaths.	Place,	Cases.	Deaths.
Alabama:			Kentucky:		
Anniston	2		Covington	. 1	
Birmingham		12	Louisville	2	1
Mobile		3	Louisiana:	1	
Montgomery		2	Alexandria	2	
Arizona:			Lake Charles	-	1
Tucson		2	New Orleans		2
Arkansas:					1
Little Rock	1		Maine:		
North Little Rock		1	Biddeferd		
California:			Portland		1
Alameda	1		Sanford	1	*********
Eureka	1	1	Maryland:		
Long Beach		2	Baltimore	52	1
Los Angeles	46	12	Cumberland	2	1
Oakland	4	6	Massachusetts:	1	į.
		3	Arlington		1 :
Redlands		1	Attleborg		
Riverside		î	Boston	29	30
Sacramento			Brockten	-	1 2
San Diego	3	3 3	Brookline	1	1
San Francisco	12	8	Cambridge	4	3
San Francisco	12	2	Chelsea	3	2
Santa CruzVallejo	2	2	Clinton	1	1
vanejo		2	Clinton	1 2	
Colorado:		0.0	Danvers		*******
Denver		36	Easthampton	1	1
	*******	7	Everett	********	
Connecticut:			Fall River	8	9
Bridgeport	6	5	Haverhill	5	3
Bristol	1	********	Lawrence	1	
Greenwich	1		Lowell	1	5
Hartford		2	Lynn	6	3
Meriden	1		Medford	1	3
New Britain	7	4	Methnen	i	1
New Haven	2	2	New Bedford	î	3
New Haven New London	ĩ	2	Newton	10	3
Norwalk	î	ĩ	Pittsfield	1	9
Wotorbuer	6	4	Plymouth		ı î
Waterbury	0	2	Plymouth		3 3 2 1 2 4 4 1
District of Columbia:		45	Quincy	3	-
		15	Salem	2	1
Georgia:		13	Somerville		1
Atlanta			Southbridge	4	1
Brunswick	1	********	Springfield	5	2 5
Reme	1	********	Waltham	5	10
Savannah		2	Worcester		12
llinois:	-		Michigan:		
Aurora	3	1	Battle Creck	1	********
Bleomington		1	Detroit	67	20
Chicago	248	69	Flint	********	1
Chicago Danville	2	********	Grand Rapids	5	1
GalesburgJacksonville	1	2	Highland Park	4	2
Jacksonville		11	Ironwood	1	1
Kankakee Monmouth	1		Ishpeming.	2	********
Monmouth		1	Kalamazoo	6	********
Peoria		2	Muskegon	5	1
Rock Island	4	1	Pontiae	1	1
Springfield		2	Minnesota:		
ndiana:		-	Duluth		1
Bedford		2	Minncapolis	3	25
East Chicago		3	St. Paul		8
		2	Missouri:	*********	
Hammand		2	Columbia		1
Therefore and the state of the		ī	Vantou City	13	13
Tuntington			Kansas City		10
Indianapons		10	St. Charles	1	5
Hammond		1	St. Joseph	********	5
		2	Montana:		2
Newcastle	*******		Anaconda	********	
Richmond		1	Butte	********	6
South Bend		1	Great Falls	2	1
Terre Haute	1	1	Missoula		1
owa:	1		Nebraska:		
Ceuncil Bluffs		1	Beatrice		1
Mason City		1	Lincoln	1	5
ansas:			Omaha		7
Coffeyville	1		New Hampshire:		
Karsas City	5		Concord		2
Topeka		2	Dover	1	2

3,

PNEUMONIA (ALL FORMS)—Continued.

City Reports for Week Ended Jan. 1, 1921-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deat
New Jersey:			Ohio-Continued.		F
	2				
Atlantic City	2		Cincinnati		1
Bayonne	1		Cleveland		
Belleville			Columbus		
East Orange	3	2	Dayton	. 1	
Elizabeth		3	East Cleveland	. 1	
Englewood	2	. 2	Findlay	. 3	1
Garfield	4		Hamilton		
Hackensack	1	1	Ironton	. 1	1
Harrison			Lima		i
		5	Manafield		1
Hoboken		3	Mansfield	. 3	
Irvington	2		Marion		*****
Jersey City			Newark		
Kearny	3	2	Springfield	. 1	
Montclair	1	2	Toledo		
Newark	113	16	Youngstown		
Orange	3	1	Oklahoma:		
Passaic.	3	2	Oklahoma City	1	
Paterson	3	-			
		***********	Oregon:	1	
Perth Amboy		3	Portland		
Plainfield		3	Pennsylvania:		
Trenton	6	3	Philadelphia	. 81	
West New York		1	Rhode Island:		
West Orange	1		Cranston	. 1	
ew Mexico:	-		Newport	1	
Albuquerque	1		Pawtucket		
cw York:			Providence		
	- 11		South Carolina:		
Albany	11				
Auburn		1	Charleston		
Binghamton	19	2	South Dakota:		
Buffalo	50	26	Sioux Falls		
Cohoes	5		Tennessee:		
Glens Falls	3		Nashville		
1th aca	3		Texas:	1	
Jamestown	4	1	Beaumont		
Lock port	2		Dallas	15	
Mount Vernon	4		DallasEl Paso	10	
	4		Post Worth		
Newburgh	2	1	Fort Worth		
New York	261	185	Galveston		
Niagara Falls	5	5	Utah:	1	
North Tonawanda		1	Salt Lake City		
Olean		3	Vermont:		
Peekskill	2		Rutland	1	
Poughkeepsie	ī	2	Virginia:	1	
Rochester.	12	2	Alexandria	1	
Domo		2	Lynchburg	1	
Rome	2 2	********	Lynchburg Norfolk Petersburg	**********	
Saratoga Springs		1	Norioik	3	
Schenectady	8	5	retersburg		
Syracuse	11	6	Richmond		
Troy	14	3	Roanoke	2	
Watertown	2		West Virginia:		
Yonkers	15	7	Charleston		
orth Carolina;			Fairmont	1	
Charlotte		. 3	Huntington	-	
Durham			Wheeling.	*********	
Durham		1	Wissensins		
Greensboro		2	Wisconsin:		
Raleigh		1	Beloit		
Wilmington		1	Janesville		
Winston-Salem		4	La Crosse	15	
hio:		- 1	La Crosse		
Akron	4		Milwaukee	2	
Alliance	-	i	Oshkosh	-	
	*******	i	Racine		
Canton		. 1			
Chillicothe	2		Wausau		

POLIOMYELITIS (INFANTILE PARALYSIS).

City Reports for Week Ended Jan. 1, 1921.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

ths.

2

70

2

2

Place,	Average		c ended 1, 1921.	Place.	Average	Jan. 1	ended , 1921.
	cases.	Cases.	Deaths.		cases.	Cases.	Deaths
Illinois: Kankakee Kansas: Kansas City	0	1	1	Massachusetts: Boston Lowell. Southbridge Waltham	(¹) 0	1 1 1 1	

1 Average less than 1.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 83; Monthly summaries by States, p. 87; and Weekly reports from cities, p. 96.

SMALLPOX.

Port Arthur, Tex.

Under date of January 5, 1921, smallpox was reported epidemic at Port Arthur, Tex.

St. Paul, Minn.

During the 10 days ended January 10, 1921, 113 cases of smallpox were reported in St. Paul, Minn. The disease is of a very mild type.

City Reports for Week Ended Jan. 1, 1921.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place.	Average		k ended 1, 1921.	Place.	Average	áan I	ended , 1921.
	cases.	Cases.	Deaths.		cases.	Cases.	Deaths
Alabama:				Illinois-Continued.			
Birmingham		2		East St. Louis	0	13	
Mobile		4		Elgin	3	1	
Montgomery	(1)	1		Evanston	0	2	
Arkansas:				Kewanee		1	
Hot Springs	1	1		Rock Island	1 1	3	
Little Rock	6	1		Springfield	3	1	
California:				Indiana:	1		
Los Angeles	1	4		Bedford	0	2	1
Oakland	0	1		Frankfort		3	
Sacramento	(1)	13		Hammond	(1)	2	
San Francisco	0	25		Indianapolis		6	
Colorado:	-			La Fayette		4	1
Denver	15	4		Marion	0	7	
Pueblo	0	4		Mishawaka	1	2	
Georgia:		_		South Bend	0	31	
Atlanta	2	19	1	Terre Haute	0	7	
Brunswick	0	1	-	Iowa:			1
Illinois:	0			Cedar Rapids	1	3	
Bloomington	1	5		Council Bluffs	4	1	
Chicago	2	7	******	Davenport	7	i	
	- 1		1	i was embed a			

¹ Average less than 1.

SMALLPOX-Continued.

City Reports for Week Ended Jan. 1, 1921-Continued.

Place.	Average cases.		k ended 1, 1921.	Place.	Average cases.		ended , 1921.
	cases.	Cases.	Deaths.		cases.	Cases.	Deaths
Iowa-Continued.				Ohic-Centinued.			
Des Moines	5	5		Ashtabula	0	1	
Dubuque	(1)	25		Barberton	0	6	
Mason City	1	2		Canton	1	11	
Kansas:			1.	Cincinnati	3	1	
Hutchinson	0	2		Cleveland	10	2	
Kansas City	(1)	2		Columbus	1	1	
Leavenworth	0	1		Dayton		1	
Parsons	0	3		Fostoria		1	
Kentucky:				Lancaster	0	1	
Lexington	0	1		Lima	0	14	
Louisville	0	2		Lorain		4	
Louisiana:		_		Mansfield		1	
Alexandria	(1)	4		Middletown		2	
Monroe	()	i		Springfield	(1)	1	
New Orleans	2	28	7	Tiffin	0	4	
Maine:	-	•0		Toledo	3	11	1
Waterville		3		Youngstown	0	2	
Massachusetts:		- 0		Oklahoma;		_	
Methuen		1		Oklahoma City	2	4	
Michigan:				Tulsa	-	2	
Battle Creek	0	12		Oregon:	******	-	
Detroit	15	39		Portland	20	19	
Sault Ste. Marie		15			20	10	
Minnesota:	0	19		South Carolina:		-	
Duluth	(1)	10		Charleston	0		
Mankato	(')	2		Columbia	0	1	
Minneapolis		135		Tennessee:			
St. Cloud	5	4.000		Knoxville	(1)	3	
St. Paul	6	52		Nashville	(1)	5	
Stillwater	0	2		Texas:			
Winona	0	10		· Corpus Christi	2	1	
Missouri:	0	10		El Paso	(1)	1	
	1	1		Utah:	1		
Joplin Kansas City	21	8		Salt Lake City	3	17	
St. Louis		10			0		
Montana:	3	10		Vermont:			
	-	1		Rutland	0	4	
Butte Missoula	6	2		Virginia:			
Nebraska:	U	-		Lynchburg		1	
	11	7		Norfolk	(1)	2	
Omaha	11			Petersburg		1	
Buffalo	2	1		West V.rginia			
Jamestown	0	i		Bluefield	(1)	1	
		i		Wisconsin:		-	
New York	(1)	1		Eau Claire	1	1	
				Green Bay	2	10	
Winston-Salem	2	4			(1)	2	
North Dakota:	a.			Madison		2	
Fargo	(1)	5		Marinette	(1)		
Ohio:				Milwaukee	2	3	
Akron	4	9		Sheboygan		13	
Alliance	0	1		Superior	2	3	

¹ Average less than 1.

TETANUS.

City Reports for Week Ended Jan. 1, 1921.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
California: Los Ange'es. New York: New York.	1	1	Ohio: Akron. Mansfield. Pennsylvania: Philadelphia.	1 1	

TRICHINOSIS.

California-November, 1920.

During November, 1920, one case of trichinosis was reported in California.

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 83, and Weekly reports from cities, p. 96.

TYPHOID FEVER. Epidemic at Philippi, W. Va.

ded 1921.

eaths.

1

.....

....

.....

....

ths.

in

An epidemic of typhoid fever has been reported at Philippi, W. Va. To January 8, 1921, 30 cases had been notified.

City Reports for Week Ended Jan. 1, 1921.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place.	Average cases.	Jan	ended 1, 1921.	Place.	Average cases.	Jan. 1	ended , 1921.
	cases.	Cases.	Deaths.		cases.	Cases.	Deaths
Alabama:				Massachusetts-Contd,			
Birmingham	2	2		Lowell	(1)	1	
Arkansas:		1	1	Michigan:			
Fort Smith	0	2		Ludington	0	1	******
Hot Springs	0	1		Marquette		1	
Little Rock	0	1		Traverse City	*******	3	
California: Los Angeles	3	3	1	Minnesota: Minneapolis	2	1	
San Francisco	2	2		Missouri:	-	1	******
Colorado:	-	-		Joplin	0	1	
- Denver	(1)		1	Kansas City	2	i	
Pueblo	0	. 1		St. Louis	5	5	
Connecticut:		1		Nebraska:			
New Haven	(1)	1		Omaha	(1)	1	
Norwalk	0	1		New Jersey:			
Norwich	0	2		Bayonne	0	1	
Delaware:				Jersey City	1	5	******
Wilmington	(1)	1		New York:			
District of Columbia:				Albany		3	
Washington	2	3		Binghamton		1	
Georgia:	/15			Buffalo New York	-	2	******
AtlantaIdaho:	(1)	1		Peekskill	18	11	
Boise	0	1		Rochester	(1)	1	******
Illinois:	0			Troy	1	1	
Aurora	0		1	Ohio:			
Chicago	6	3		Ashtabula	0	3	
Danville	ĭ	1		Cleveland		1	
Rock Island	0	1		Dayton	(1)	1	
Indiana:				Sandusky	(1)		1
Fort Wayne	(1)	1		Toledo	1		1
Huntington	1	1		Oklahoma:			
Indianapolis	1	1		Oklahoma City	(1)	1	******
La Fayette	0	2		Tulsa	******	2	
Muncie Kansas:	2	1		Pennsylvania: Philadelphia	3	3	
Kansas City	(1)	1		Texas:	0	9	
Leavenworth	(,)	1		Austin	0	1	
Kentucky:		•		Vermont:			
Lexington	(1)	2	1	Rutland	(1)	2	
Louisville	(1)	2 2	1	Virginia:	''	-	
New Orleans	3	2		Norfolk	0	4	
Maine:				Richmond	(1)	1	
Lewiston		1	1	West Virginia:			
Portland	0	1		Charleston	0		1
Waterville		1		Martinsburg	0	1	******
Maryland:		-		Parkersburg	(1)	6	******
Baltimore	4	7		Wisconsin:	0		
Massachusetts:	(1)			Manitowoc Milwaukee	0	1 2	
ChelseaLawrence	(1)	1	******	Sheboygan	1	3	
Lawlette	(,)		******	Encooygan	*******	3	*******

1 Average less than 1.

TYPHUS FEVER.

Waco, Tex.-January 3, 1921.

On January 3, 1921, one case of typhus fever was reported at Waco, Tex.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended Jan. 1, 1921.

	Popula- tion	Total deaths	Dipl	htheria	. Me	asles.		arlet ver.		ber- osis.
. Place.	Jan. 1, 1920 subject to correction.	from	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:		1					1			
Anniston	17,734		2							
Birmingham	178, 270	57	7				9	1	7	5
Mobile	60, 151	21	3		2					3
Montgomery	43, 461	20	1		. 2		1		2	1
Tueson	20, 292	15			1		1			9
Arkansas:		-	1	1			1			
Fort Smith	28,811		3				2			
Hot Springs	11, 635	8								2
Little Rock	64,997		1		. 29		1	*****	2	
North Little Rock	14,048	4	1		1		2			
California: Alameda	26 806	31			2				1	. 2
Eureka	28, 806 12, 923 55, 593	6			-	1	3	1		-
Long Beach	55, 593	18	3	1	1		3			
Los Angeles	576, 673	191	67	3	128		16		38	19
Oakland	216, 361	45	1				5	1	3	5
Pasadena	45, 354 19, 341	18			4		2		1	1
Riverside Sacramento	65,857	10 26	1		16		2		5	3
San Bernardino	18, 721	5	6 2						9	
San Diego	74, 683	25	3	*****	1				7	6)
San Francisco	508, 410	147	15	1	. 6		13		18	15
Santa Barbara	508, 410 19, 441	5								
Santa Cruz	10,917	5	1	1						
Vallejo	21, 107	3					2			
Colorado: Denver	256, 369	129	9	3	139		14			13
Greeley	10,883	129	9	9	1.59		3			1.3
Pueblo	42,908	15	2		i		5		1	i
Connecticut:	12,000		-		1					
Bridgeport (town)!	143,538	38		3	1		8		2	2
Bristol (town)1	20, 620	5			5				1	
Greenwich (town)	22, 123	4	S		3		2			
Hartford (town)1	138,036	37	10		3	*****	14	*****	1	3
Manchester (town) Meriden (city)	18,370 29,842	2	4	1	1		16			
New Britain (town)	59, 316	15	8	1	36		10			
New Haven (town)1	59,316 162,519	45	24	2	2		34		12	2
New London (town)1	25.688	6	4		1		- 5			
Norwalk (town)!	27,700 22,304	2	- 5				*****	*****		
Norwich (city)	22,304	2	1	*****	*****	*****	4			
Waterbury (town)1 Delaware:	91,410	25	4	1		*****	7	*****	1	
Wilmington	110, 168	39			1		3	1		1
District of Columbia:	110, 100	93			-			-		•
Washington	437, 571	113	16	1	8		25		22	6
Georgia:										
Atlanta	200,616	80	4	*****	11	*****	7	1		1
Brunswick	14, 413	3	*****		*****	*****		*****		*****
RomeSavannah	13, 252 83, 252	30	3	*****	*****	*****	1		1	1
Idaho:	30, 404	93	0	*****		*****			- 1	
Boise	21,393	6	1				1			
Illinois:										
Alton	24,682	12	1	1						
Aurora	36, 397	15			2		1			1
Bloomington	28, 723	7		*****			6			
CentraliaChicago	28,725 12,491 2,701,705	579	236	20	130	2	184	6	146	32
Danville	33,750	12	200	20	100				1	
Decatur	43, 818	8	9		1		1			1
Fast St. Louis	.66,740 27,454 37,215	10	5				6		2	1
Elgin	27, 454	6	5							****
Evansion	37, 215	7	5		2	*****	3		*****	····i
Freeport	19,669	5	2 3						****	1
Galesburg	23, 834	i .	3							
Granite City	14,757 15,713 16,753	48			2		2			2
Kankakee	16 753	3 1			6		11			

¹ Coextensive with city of same name.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd. City Reports for Week Ended Jan. 1, 1921—Continued.

Deaths.

	Popula- tion	Total deaths	1	hheria.	Men	ısles.		arlet ver.		iber- losis.
Place.	Jan. 1, 1920, subject to correction.	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Illinois—Continued.										1
Kewanee	16,026	5	2		3		12		1	1
La Salle	13,050	2					1			
Mattoon	13,552			1			1			
Pekin	12,086		2				i			
Peoria	76, 121	20	3			*****	15	*****		
Rockford	65, 651	6	4	1		*****	1	*****		
Springfield	59, 183	15	2		4	*****	49	1		*****
Indiana:	.,		_			****	40		*****	1 '
Bloomington	11,595	2								
East Chicago	35, 967 24, 277 10, 790	13			*****	*****		*****		
Elkhart	24 277	6	*****		1	*****				*****
Elwood	10, 790	8	*****	*****	1	*****	3	*****	*****	
Fort Wayne	36,549	17	9	*****	*****	*****		*****	*****	
Frankfort	11,585	5	3		*****	*****	5	1		1
Gary	55, 378	20	2		*****	*****	1			*****
Hammond	36,004	8	2	*****	*****	*****		*****		1
Huntington	14,000			*****		*****	5		1	1
Indianapolis	314, 194	4	2		*****	*****	7		*****	
Kokomo	30,067	74	6	3	13	*****	46		4	1
La Fayette		8		*****						
Logansport	22, 486	8	1		*****		4			
Marion.	21,020	6								
	21,626 23,747 15,195	8	2		1			1		
Mishawaka	15, 195	3					1			
Muncie	36,624	. 8	4	1	3		2		1	1
Newcastle	14,458	* 4								
Richmond	26,765	9	2				2		2	
South Bend	70, 983	5	2	1			4	1		
Terre Haute	66,083	20	4		1		10			
owa:			1							
Burlington	24,057	7								
Cedar Rapids	45,566		3				2			
Council Bluffs	36, 162	9	2				7			
Davenport	58,727						2			
Des Moines	126,468		3		1		2			
Dubuque	39, 141		2				3			*****
Iowa City	11, 267		1							
Keokuk	14,423	1								
Marshalltown	15,731		1				1	*****		
Mason City	20,065	8					î			
Muscatine	16,068	6						*****		
ansas:	,									
Atchinson	12,630		1		1					
Coffeyville	13, 452	10					*****		*****	
Fort Scott	10,693	9	3				*****		*****	
Hutchinson	23, 293	0	5							
Kansas (ity	101, 177		8	*****			1	*****	3	*****
Lawrence	12,456	2	9				2	*****	3	
Lea enworth	16,912	2	4	*****			1	*****	*****	
Parsons	16,628	2	3	*****			2	*****	*****	
Salina.	15,085	3	6						*****	
Topeka	50 022		0		5		8		1	
Wichita	50,022 72,128	14			77		3		2	1
entucky:	12, 120	42	11	1	1		1		2	2
Covington	57, 121	14			- 1					
Lexington	41 524						3			1
Louis tile	41,534	18	4.00		2 .	*****	3			
Paducah	234, 891	80	17	1			35		2	7
outsiana:	24,735		2							
Alexandria	17 510									
Lake Charles.	17,510	6	1							
Monroe	13,088	10								3
New () plane	12,675 387, 219	3	1						1	1
New Orleans	387, 219	151	10	1	202	1	9		16	17
	10 000					1				
Auburn	16,985	3			17					
Biddeford	18,008				2 .	*****	1			
					943					
Lewiston	31,791	8	2	000000	19		3			
Lewiston	31, 791 69, 272 10, 691 13, 351	17	5		4		3			1

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd. City Reports for Week Ended Jan. 1, 1921—Continued.

	Popula- tion	Total deaths	Diph	theria.	Mea	isles.		arlet ver.	Tu	ber- osis.
Place.	Jan. 1, 1920, subject to correction.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Maryland:							23		15	2
Baltimore	733, 826 23, 837	221 7	46	2	15		20		1	
Adams	12,967	2					2		1	
Amesbury	10, 036 18, 665	0 5	1				2			
Attleboro	19, 731	5	1				1			
Boston	19,731 748,060	223	70	5	41	2	42	4	34	1
Brockton	66, 138		3		9 3		1 1	*****		
Brookline	37, 748 109, 694 43, 184	27	6		3		i		2	
Cambridge	43, 184	18	3		4		1		2	
Chicopee	36, 214		1				i			
Clinton	12,979	4 7			10				1	
Danvers	11, 108								4 3	
Easthampton	11, 261 40, 120	10	3		2		5	******	2	
Everett	120, 485	44	3	*****	38	2	3		3	
Fall RiverFraminghamGreenfield	17,033	1			6					
Greenfield	17,033 15,462	6					5			
Haverhill	53 884	14	9						2	
Holyoke	60, 203 94, 270 19, 744	11					1 3		7	
Lawrence	94,270	22	3	*****	3			*****	1	
Lowell	112, 479	5 37	. 6		85	4	3		6	
Lynn	99, 148	30	8		3		12		4	
Malden	99, 148 49, 103	16	5		4		5 2			
Medford	39, 038	12	1				2 2		2	
Melrose	18, 204	4 3	1		2		1		1	
Methnen New Bedford Newburyport	15, 189	21	8	1	- 2				3	
New Dedlord	121, 217 15, 618	3	0				2			
Newton	46.054		3		11		1			
Newton	22, 282 21, 951 41, 751	5								
Northampton	21,951	11			67		2		2	
Pittsfield	13,045	7			01					
Quincy	47, 876	8	9		3		1		1	
Salem	47, 876 42, 529 93, 091	19	i							
Somerville	93,091	14	3	2	4		4		6	
Southbridge	14, 245	3					16	*****	1	
Springfield. Wakefield. Waltham.	129, 563	42	5	1	1		10			
Waltham	13, 025 30, 915	10					4		2	
Watertown.	21, 457	2	2		1		4			
Westfield	18, 604	7							1	
Winthrop	15, 455	0	1		2				*****	
Woburn	15, 455 16, 574 179, 751	40	1				28	2	5	
Worcester	119, 101	40								
Ann Arbor	19,516	5	1				1			
Ann ArborBattle Creek	19,516 36,164		4				3			·····j
Detroit	993, 739	213	162	13	18		90	5	33	,
Flint	91, 599	18 38	6 16				3 6		4	
Grand Rapids Highland Park	137, 634 46, 499	10	3		1		7			
Ironwood	15, 739	3			12		3		2	
Ishpeming	15, 739 10, 500	3	····i				1			
Kalamazoo	48,858 12,718	16	1		2		12		1	
Marquette Muskegon	12,718	6					8			*****
Pontice	36, 570 34, 273	12	1 2				12		4	
Pontiae	12.096	2			1		2			
	12,096 10,925	4		1			2			
innesota:							-		2	
Duluth	98,917	14					7		2	****
Hibbing	15, 089 12, 469	3	1		i					
Mankato	380, 582	91	8		2		58	1	5	0
St. Paul	234, 595	63	35	1	2		18		14	
Virginia.	14, 022 19, 143		2				1			
Winona.	19 143						2			

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

d.

22

1 3 1

1 1 4

1 1

18 1

1

8 8

City Reports for Week Ended Jan. 1, 1921-Continued.

Place Subject to correction causes Subject to correct Columbia 10.379 5		Popula- tion	Total deaths	Diph	theria.	Mea	isles.		rlet er.		ber- osis.
Cape Girardeau	Place.	Jan. 1, 1920, subject to	from all	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cape Girardeau 10, 252 2 0 0 0 1 1 1, 250 2 1 1 1 1 1, 250 1 1 1 1, 250 1 1 1 1 1, 250 1 1 1 1 1, 250 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	issouri:										
Independence	Cape Girardeau	10, 252									
Joseph	Columbia			5		1					
St. Louis 772,887 197 183 8 4 54 1 26 Intana: 11,668 6 1 1 3 3 Anaconda 11,668 6 1 1 3 3 Billings 41,611 27 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Independence	29.855						1			
St. Louis. 77,2897 197 183 8 4 54 54 54 1 26 Instance: 11,688 6 1 13 8 Hillings: 14,611 15,100 6 29 1 3 1 Billings: 14,611 17 11 11 11 11 11 11 11 11	Kansas City	324, 410								4	
St. Louis. 772,997 197 183 8 4 97 20 Iontanaa. 11,668 6 1 3 Bulte. 41,611 27 1 11 1 1 Great Falls. 221,121 4 288 1 1 Interest Inter	St. Joseph	77,939							1		
Anaconda	St. Louis	772,897	197	183	8	1	*****	31	1	20	
Billings	ontana:	11.668	6			1		3			
Butter	Rillinge	15, 100				29		1			
Missoula 12,068 2	Butte	41,611		1		11				1	
Missoula 12,068 14	Great Falls	24, 121				28		1			
Lincoln	Missoula	12,668	2								
Omaha. 191,601 50 9 2 1 8 evada: 12,016 3 Reno. 12,016 5 Reno. 13,029 5 9 1 1 Renchester 78,384 16 22 1 1 3 3 Reno. 13,509 2 1 1 3 3 Reno. 14,000 5 1 2 1 Rever Jersey: 12,400 5 8 2 1 Repleved 12,400 5 8 2 1 Repleved 12,5600 1 2 2 2 Reno. 15,600 1 2 2 2 Reno. 15,600 1 2 2 2 Reno. 15,600 1 2 2 2 Reno. 16,600 1 2 2 1 Respected 11,627 7 10 1 Reno. 16,600 1 1 Reno. 16,600 1 1 1 Reno. 16,600 1 1 Reno. 16,600 1 1 1 Reno. 16,600 1 1	ebraska:	54 934	1.1					4			
Sevalar 12,016 3	Omaha			9	2	1		8			
Reno. Fig.	evada:										
Berlin	Reno	12,016	3								
Manchester	ew Hampshire:	10 104									
Manchester	Berlin	22 167						1			***
Keene	Dover	13, 029	5			9					
Manchester	Keene	11,210								1	
ew Jersey: Asbury Park. Asbury Park. 12,400 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Manchester	78,384	16	22	1	1		3			
Bayonne	Portsmouth	13, 569		2						1	
Bayonne	ew Jersey:	12.400	5					1		1	
Bayonne	Atlantic City	50, 682	7	8				2		1	
Bloomfield 22 019 5 3 2 2 10 2 2 20 10 7 7 7 10 10 1 20 2 2 20 2 2 2 2 2	Bayonne	76,751						2		2	
Bioomnetal	Pollovillo	15,660		1				2			
Elizabeth	Bloomneid										
Englewood. 11,627 7 1 1 1 1 1 1 1 1	East Orange	05 689								5	
Garfield	Englowood	11,627	7					i			
Glouester City	Garfield	19,381		1				1			
Hoboken	Gloucester City	12, 162		1							
Hoboken	Hackensack	17,667	8								
Irvington	Harrison	68 166	18					1			
Jersey City. 297, 864 44 11 11 Kearney. 26, 724 6 1 2 Montelair. 28, 810 7 7 1 1 Morristown. 12, 548 6 3 1 1 New Brunswick. 32, 779 5 2 1 New Brunswick. 414, 216 99 28 31 47 31 Orange. 33, 268 8 4 3 1 1 1 1 1 1 3 1 1 1 3 1 1 2 1 3 1 2 1 3 1 3 1 2 2 1 1 1 9 3 1 2 2 1 3 1 3 1 2 2 1 3 1 3 1 3 1 2 2 1 3 4 3 3 1 4<	Irvington	25, 480	10					1			
Montelair 28,810 7	Jersey City	297,864								11	
Morristown	Kearney	26,724		1				2			
New Brunswick 32,779 5	Montclair	28,810				7					
Newark 411, 216 99 28 31 47 31 Orange 33, 268 8 4 3 1 1 9 28 31 47 31 31 31 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 33 32 44 32	Morristown	32 779	0	5						i	
Orange. 33, 268 8 4 3 1 Passale. 63,824 18 8 6 6 6 2 Paterson. 135,866 10 5 11 3 3 1 3 Perth Amboy. 41,707 10 1 9 7 7 Palmineth 9 7 Palmineth 22,7700 9 3 4 4 2 2 2 2 1 2 1 1 <td>Newark</td> <td></td> <td>99</td> <td></td> <td></td> <td>31</td> <td></td> <td></td> <td></td> <td>31</td> <td></td>	Newark		99			31				31	
Passaic. 63,824 bl 18 bl 6 bl 0 cl 2 cl Paterson 135,866 bl 10 bl 5 bl 11 cl 9 cl 7 cl Perth Amboy 44,707 bl 1 cl 9 cl 7 cl 7 cl 9 cl 7 cl 9 cl 2 cl 1 cl	Orange	33, 268	8							1	
Perth Amboy	Passaic	63,824	18							2	1
Phillipsburg. 16,923 1 3 4 4 8 8 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	Paterson		10				*****			0	
Plainfield	Phillipshurg	16, 923									
Trenton 119,289 38 9 1 2 2 2 2 2 1	Plainfield	27,700	9	3				4			-
ew Mexico: Albuquerque	Rahway	11,042									
ew Mexico: Albuquerque	Trenton		38		_					2	
few Mexico: 15,157 9 4 1 40 1 Sew York: 113,344 4 30 3 14 Albany: 113,344 4 30 3 14 Auburn: 36,192 12 5 1 1 167 2 3 Binghamton 66,800 27 1 167 2 3 3 Buffalo. 506,775 131 90 6 75 1 40 2 14 Cohoes. 22,987 6 2 4 2 2 Elmira. 45,305 10 2 2 Glene Falle 14,618 3 3 1 Glene Falle 16,638 9 1 1 1	West New York		ī	3						1	
Abbuquerque 15, 157 9 4 1 40 1 ew York: Albany 113,344 4 30 3 14 Auburn 36, 192 12 5 1 167 2 3 Buffalo 506, 775 131 90 6 75 1 40 2 14 Cohoes 22, 987 6 2 4 2 2 Elmira 45, 305 10 2 Geneva 14, 618 3 Glore Fells 16, 638 9 1 1 1 4		10,019	1 .			1		1	1		
ew York: 113,344	Albuquerouse	15, 157	9	4	1	40		1			-
Binghamton 66,800 27 1 167 2 3 Buffalo. 506,775 131 90 6 75 1 40 2 14 Cohoes. 22,987 6 2 4 2 2 Elmira. 45,305 10 2 3 3 3 Geneva. 14,618 3 3 1 1 3 4 3 3 4 3 3 3 4 3 3	ew York:	**** ***				00		9			
Binghamton 66,800 27 1 167 2 3 Buffalo. 506,775 131 90 6 75 1 40 2 14 Cohoes. 22,987 6 2 4 2 2 Elmira. 45,305 10 2 3 3 3 Geneva. 14,618 3 3 1 1 3 4 3 3 4 3 3 3 4 3 3	Albany	26 102	10					3		14	
Buffalo 506,775 131 90 6 75 1 40 2 14 Cohoes. 22,887 6 2 4 5 Elmira. 45,305 10 2 Geneva. 114,618 3 Glore Falle 16,638 9 1 1 1		66.800					2			3	1
Cohoes. 22,987 6 2 4 2 Elmira. 45,305 10 2 Geneva. 11,618 3 2 Clans Falls 16,638 9 1 1	Buffalo	506, 775	131	90	6	75	1	40	2	14	
Elmira. 45,305 10 2 Geneva. 11,618 3 2 Clans Falls 16,638 9 1 1	Cohoes	22,987	6	2						2	
Glong Falls 16 638 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Elmira	45, 305								2	
Hudson 11,745 4 1	Geneva.	14,648						*****			
	Hudeon	10,638		1						1	1
IIDaca	Ithaca	17,004					1				
Jamestown 38,917 8 4 1 3 Lockport 21,308 2 1 1 1 <td>Jamestown</td> <td>38, 917</td> <td>8</td> <td>4</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Jamestown	38, 917	8	4		1					

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Jan. 1, 1921-Continued.

	Popula-	Tota	11	ohther	ria.	Me	asles.		carlet ever.		uber- alosis.
Place.	Jan. 1, 192: subject to correction	from all		Deathe	Deating.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York-Continued.		1						1			
Middletown	18, 420			1		37		. 1			
Mount Vernon	42, 726	1 8		8		2		. 1		. 1	
Newburgh	30, 366			1				. 4		i	
New York	42, 726 30, 366 5, 621, 151 50, 760	1, 386	41		35	74	4			2 193	2 99
Niagara Falls North Tonawanda	50, 760	13		3		3		. 24			1
Ordensburg	15, 482	5						- 1			
Ogdensburg	14,609										
Olean Peekskill	20, 506	5 3			***	******					
Plattsburg	15, 868 10, 909	3				13					
Port Chester	16, 573	5			**	*****					
Poughkeepsie	35, 000	1 7			1						
Rochester	295, 750	63			4	6	*****			- 1	2
Rome	26, 341	00	00	1	*	7		-			2
Saratoga Springs	26, 341 13, 181	4				17				- 3	
Schenectady	88, 723	18	9			21		2			
Syracuse	171 717	59	13		1	22	1	22	3	. 2	2
Troy	72, 013	20				135		3	3	2 2	1
Watertown	31, 285				1			7		2	
White Plains	72, 013 31, 285 21, 031	5	1					i		2	
Yonkers	100, 226	25	6			1		10		9	3
North Carolina:										1 3	
Charlotte	46, 338	19				50				2	2
Durham	21, 719	5	2								
Greensboro	19, 861	5									
RaleighRocky Mount	24, 418	7	4			10					1
Wilmington.	12, 742	7									
Winston-Salem	33, 372 48, 395	13 15	1	1		*****		1			1
North Dakota:	40, 393	19	*****		-	27		1			3
Fargo	21,961	8		i	1						
Ohio:	21,001	0						3			
Akron	208, 435	37	4	1		3 .	- 1			-	
Alliance	21,603	8	1		1	0 .		11		5	
Ashtabula	22, 082	3			1.				*****	*****	····i
Barberton	18, 811	7						6			î
Canton	87,091	8	7	1		4 .		4		1	2
Chillicothe	15, 831	3	1					4			-
Cincinnati	401, 247 796, 836	103	12	2		2		92	4	7	12
Cleveland	796, 836		32	8	1	11	1	90	5	13	15
Columbus	237, 031	61	14	1	1			8	1	2	4
Dayton East Cleveland	152, 559 27, 292	47	5		-	2		7		11	
Findlay.	27, 292	******						1			
Fremont	17, 021 12, 468	10	*****					2			
Hamilton	39, 675	10									
Ironton	14, 007	9	1	*****	1	1		7 .		3	2
Lancaster	14,706	9						12		1	2
Lima	14,706	9	2		1	1		1 .			
Lorain	41, 306 37, 295	9	3	*****		****	****	4 .			
Mansfield.	27, 824	7	1	*****	1	1		2 .			
Middletown	23, 594	5	2							2 .	····i
Newark	26, 718	10	- 1		100					1	1
New Philadelphia	10, 718				1		****	1 .		1 .	
Norwood	24, 966	5	1	1			****				****
Piqua	15, 014	2						3 .			
Sandusky	22, 897	5	1			1	****				
Sandusky Springfield	60, 810	17	1			6		2		1	····i
Steubenville	28, 508 14, 375	7 .						- 1-	*****	-	
Tiffin	14, 375	3 .									
Toledo	243, 109	66	45 .					18		8	6
1 OHUZSLOWD	132, 358 29, 569	40	3 .		-	10		7	1	3	2
Zanesvilleklahoma:	29, 569	5 .								2	
Oklahoma City	01 000	**	-1	1			1				
Tulsa	91, 258	18	8 .					4		2	1
'egon:	72, 075	*****	6 .			2		3			
Portland	258, 288	42	8	1		47		-1		-	-
								5		91	-

DIFHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Jan. 1, 1921-Continued.

	Popula- tion	Total deaths	Diph	theria.	Mea	isles.		rlet rer.		ber- osis.
Place.	Jan. 1, 1923, subject to correction.	nn. 1, 1920, from ubject to all	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania:										
Philadelphia	1, 823, 158	473	114	10	16		175	5	51	4
Rhode Island: Cranston	99 407	10	1				1			
Fast Providence (town)	29, 407 21, 793	10	2				3			
Newport	30, 255	10	3	*****			1			
Pawtucket	64, 248	16	6	1			3			
Providence	64, 248 237, 595	76	18		39		11			
South Carolina:				1						
Charleston	67, 957	25	1	1						
Columbia	37, 524								2	
South Dakota:				1						
Sioux Falls	25, 176	10			1		3			
cnnessec:	77, 818		3	1			2		3	
Knoxville	118, 342	49	1	*****	1		ī		3	
, Nashville	110,092	30								
Austin	31, 876	11	1			1	1			
Beaumont	40, 422	16				1				
Corpus Christi	10, 522	6			2		1			
Dallas	158, 976	35	17				2		24	
El Paso	77, 543	52	2		1		2			
Fort Worth	106, 482	17		1	*****					
Galvesten	44, 255	18	6	1						
Waco	38,500	7								
tah:	****	60			250	1	.7	1	2	
Salt Lake City	118, 110	32	*****		303		-4	1	2	
ermont: Burlington	22,779	6	1				7			
Rutland	14,954	4	î							
irginia:	11,001		-					1		
Alexandria	18,060	4								
Lynchburg	29,956	17								
NorfolkPetersburg	29, 956 115, 777 31, 002 171, 667		4		14		2		4	
Petersburg	31,002	15	1						1	
Richmond	171,667	48	13	1	5		-3			
Roanoke	50, 842	10	3		16		7	*****	*****	
Vest Vireinia: Bluefield	15, 282		1		8		5			
Charleston	39,608	16	3						1	
Fairmont	17, 851						1			
Huntington	17, 851 50, 177	22								
Morgantown	12, 127	0								***
Moundsville	10,669	2					2			
Parkersburg	20,050	4	1							
Wheeling	54, 322	15	6		9		2			
Visconsin:	10 701		1		1		3			
Appleton	19, 561 21, 284	2	1		1	*****	0	*****		****
BeloitEau Claire	20, 880	-			2		2			****
Fon du Lac	23, 427	8	3							
Green Bay	31,017	5	2				5			
Janesville	18, 293	6					4			
Kenosha	40,472	6	3				1			
La Crosse	30, 363	3	*****	*****	1		1		*****	
Madisen	38,378	9	1	*****	*****		7		3	****
Manitowoc	17, 563	100	2		******		95	*****	94	
Milwaukee	457, 147	106	56	2	15		35		24	
Oshkosh	33, 162 58, 593	11	9	*****	4		5		*****	
RacineSheboygan	30, 955	14	9		2		3			
Superior	39, 624	7	9	*****	3					
Wausau	18, 661	9	-	*****			1		1	
muusati	10,001	0	*****		*****					

FOREIGN AND INSULAR.

YELLOW FEVER ON VESSEL.

Steamship Savoia-From Vera Cruz-At Habana.

Three cases of yellow fever were reported on the steamship Savoia from Vera Cruz, at Habana, Cuba, January 12, 1921.

CUBA.

Beriberi on Vessel-Habana.

According to information dated January 8, 1921, the Chinese steamship Wallowra, from China via Panama Canal, arrived at Habana, Cuba, December 27, 1920, with 37 cases of beriberi on board. One of these cases terminated fatally December 28, 1920. The Wallowra gave a history of epidemic beriberi with seven fatalities en route.

Cummunicable Diseases-Habana.

Communicable diseases have been notified at Habana as follows:

	Dec. 21-	-31, 1920.	Re- main-		Dec. 21-31, 1920.	Re- main-	
Disease.	New cases.	Deaths.	ing under treat- ment Dec. 31, 1920.	Dicease.	New cases.	Deaths.	ing under treat- ment Dec. 31, 1920.
Cerebrospinal meningitis. Chicken pox. Diphtheria Leprosy. Malaria	1 1 1	1 1	2 6 2 12 1112	Mensles Scarlet fever Smellpox Typhoid fever	6 1 18	7	15 1 1 1 2 42

¹ From the interior, 48; from abroad, 1.

DANZIG.

Typhus Fever.

A case of typhus fever occurring in an emigrant from Brest-Litovsk with history of a recent two weeks' stay in Warsaw, Poland, was reported at Danzig, December 20, 1920.

² From the interior, 24; from abroad, 3.

DENMARK.

Measures Against Importation of Typhus Fever.

Under date of November 27, 1920, all Baltic ports of Russia, including those in Esthonia, Latvia, and Lithuania and the port of Danzig, were declared infected with typhus fever, and measures against importation of the infection were made applicable to all vessels arriving from or having touched at these ports. Crews and passengers having sailed from these ports or having come in contact with a person suffering from typhus fever were made subject to medical examination. The period within which this examination was required was 21 days from departure or date of contact.

GREAT BRITAIN.

a

0

S

k

IS

Examination of Rats-Plague Rat Found-Liverpool.

During the two weeks ended December 11, 1920, out of 500 rats examined bacteriologically from a "take" of 3,945 rats, one rat was found plague infected.

Plague-Dublin-October, 1920.1

A case of plague was discovered at Dublin, Ireland, in a person admitted to hospital October 18, 1920. The residence of the patient was stated to have been in the vicinity of the quays, but the source of infection was not determined. No infection among rats was reported.

POLAND.

Cholera-Eastern Frontier.

Information dated December 16, 1920, shows the presence of cholera on the eastern frontier of Poland, at Bialystok, Grodno, and Olitza, in the Russian prison camp near Posen, and at Stralkowo. A fatal case of cholera was reported at Strelno.

RUSSIA.

Plague-Batum.

An epidemic outbreak of plague has been reported at Batum Russia, with 38 cases notified from November 24 to December 3, 1920.

TURKEY.

Contagious Diseases on Vessels-Constantinople.

Information dated December 7, 1920, shows that vessels arriving at Constantinople with Russian refugees have had much contagious disease on board. Five fatal cases of plague were reported on the steamship *Lazazrew*. On the steamship *Beshtau* 90 cases of typhoid fever were reported. Typhus fever was stated to be present on all the arriving vessels.

Reports Received During Week Ended Jan. 21, 1921.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India: Calcutta Philippine Islands: Manila. Poland: Eastern Frontier—	Nov. 21-27 Nov. 28-Dec. 4	56 2	51	
Bialystok	Dec. 16,			Present. Do. Do. Present in Russian prison camp

PLAGUE.

Azores: St. Michaels				Total, Oct. 1-Dec. 10, 1920: Cases, 149; deaths, 49. In vicinity of
				Ponta Delgada.
Brazil: Bahia	Oct. 31-Nov. 13	4	3	
British East Africa	Oct. 31-Nov. 13			Total for Kenya Colony, Nov. 8,
N	32 0			1920: Cases, 1,067.
Nairobi	Nov. 8. Oct. 29-Nov. 5	168		Serious outbreak reported.
Cevlon:				
Colombo	Nov. 21-27	10	5	
France: Marseille	June-Aug. 31	58	20	
Paris	June-Oct. 15	50	11	In suburbs, June-Nov. 2, 1920; Cases, 38; deaths, 19.
Great Britain:				
Liverpool				Plague-infected rat found, period
India				Nov. 28-Dec. 11, 1920. Nov. 11-20, 1920: Cases, 2,552;
			0.07	deaths, 1,769.
Madras Presidency Rangoon	Nov. 28-Dec. 4 Nov. 21-27.	371	267	
Mexico:	2404. 21-21	o o	0	
Carbonera	Dec. 14-20	1	1	State of San Luis Potosi.
Do	Dec. 26-Jan. 1 Dec. 14-20	2 3	5	Do.
Cerritos	Dec. 26-Jan. 1	3	9	
Russia:	Dec. ad Jan. L			
Batum	Nov. 21-Dec. 3	38		Epidemic outbreak.

SMALLPOX.

Austria.				Aug. 29-Nov. 6, 1920: Cases, 62.
Vienna	. Aug. 29-Sept. 25	13		
Brazil:				
Bahia	. Oct. 31-Nov. 13	3		
Rio de Janeiro	Nov. 21-Dec. 11	27	10	
Canada:				
Ontario-				
Hamilton	. Jan. 2-8	10		
Niagara Falls	Dec. 12-18	1		
Ottawa	Dec. 26-Jan. 1	64		
Ceylon:				
Colombo	Nov. 21-27	3	3	
China:				
Nanking	Nov. 28-Dec. 4			Present.
Tientsin	Nov. 28-Dec. 4			Present.
Cuba:				
Habana	Dec. 31-Jan. 5	5		
Czechoslovakia				July 11-Aug. 14, 1920: Cases, 141;
France:				deaths, 29.
Rouen	Dec. 5-11	4	1	
Germany				Aug. 29-Nov. 6, 1920: Cases, 40.
Berlin	Oct. 20-Nov. 6	1		,,

¹ From medical officers of the Public Health Service, American consuls and other sources.

Reports Received During Week Ended Jan. 21, 1921-Continued.

SMALLPOX-Continued.

SMALLIVA	Cont	mucu.	
Place, Date,	Cases.	Deaths.	Remarks.
Great Britain:			
Glasgow Dec. 19-25	7	1	
India: Nov. 28-Dec. 4	4	2	
Rangoon Nov. 21-27			
Java:			10 10 100 0
West Java	4	1	Nov. 12-18, 1920: Cases, Cases
Madeira:	1		1
Funchal Dec. 12-18		1	
Mexico: Chihuahua Dec. 27-Jan. 2		3	
Federal District Nov. 14-27	8	9	Including Mexico City.
Spain:	1		
Barcelona Dec. 9-15		3	
Turkey: Constantinople Dec. 5-11	3		
On vessels:			
S. S. Alfonso XIII Dec. 27	1		
S. S. Cadiz Jan. 5.	1		northern Spain. At Habana, Cuba, from Mediter
S. S. Cadiz Jan. 3	1		ranean ports.
S. S. Ohioan Jan. 4	1		At San Pedro, Calif., from New
			York, via Balboa, Canal Zone
TYPHUS	FEVE	R.	
Belgium:		1	
Ghent Dec. 12-13	5		
Czechoslovakia			July 11-Aug. 28, 1920: Cases, 138
Danzig	1		deaths, 18.
Egypt:			In emigrant from Brest-Litovsk with two weeks' stay at War
Alexandria Dec 3-9	5	2	saw.
Cairo Oct. 15-21	7	3	G 10 N 10 1000 G 400
Germany			Sept. 12-Nov. 13, 1920: Cases, 69 Aug. 3-Oct. 3, 1920: Cases, 9.
Mexico:			Trug. o-Oct. o, 1525. Cases, o.
Federal District Nov. 14-27	35	*******	Including Mexico City.
Netherlands: Rotterdam			September, 1920. One case.
Furkey:			September, 1929. One case.
Constantinople Dec. 5-11	4		
	FEVER	ε.	
YELLOW			
Mexico:			
fexico: Tuxpam Dec. 23-Jan. 1.	5	1	
Mexico: Dec. 23-Jan. 1 Vera Cruz. do	5	1	
Mexico: Tuxpam Dec. 23-Jan. 1.		1	At Habana, Cuba, from Vers

Reports Received from Jan. 1 to 14, 1921.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China: ChangshaChungking				Present.
Chosen (Korea)				Nov. 19-25, 1920: Deaths, 22.
India				Sept. 26-Oct. 9, 1920; Deaths 2,672.
Calcutta	Oct. 31-Nov. 6	68	59	
Taiwan Island (Formosa) Java:	Nov. 11-30	77	18	
West Java				Oct. 29-Nov. 11, 1920: Cases, 2, deaths, 1.
Bandoeng Philippine Islands:	Oct. 29-Nov. 11	2	1	deaths, 1.
Manila	Nov. 7-27	. 3		
Provinces				Jan. 10-Oct. 30, 1920; Cases, 80, deaths, 51.
Cagayan	Oct. 3-9	5	3	
Samar	Aug. 1-7	1	1	
Warsaw	Dec. 16	5		
Siam:				
Bangkok	Oct. 9-Nov. 13	4		

PLAGUE.

Algeria:				
Algiers	Nov. 1-30		1	
Brazil:				
Porto Alegre			3	
Pernambuco	Oct. 18-Nov. 14	9	1	
British East Africa:				
Kisumu	Oct. 31-Nov. 6			Present.
Mombasa	do	1	1	
Nairobi	Oct. 31-Nov. 13	6	2	
Uganda	May 1-June 30	111	103	Entire Protectorate.
Do		91	63	Do,
Ceylon:				
Colombo	Nov. 7-20	10	12	
Chile:				
Antofagasta	Nov. 24-Dec. 5	6	2	
China:				
Hongkong	Nov. 7-20	3	3	
Ecuador:				
Guayaquil	Nov. 16-30	18	7	
Egypt.				Jan. 1-Nov. 25, 1920: Cases, 456;
Cities—				deaths, 264.
Suez	Nov. 18-24	6	3	acaim, and
Provinces-				
Assiout	Nov. 24	- 3-	2	
Great Britain:			_	
Dublin				1 case reported Dec. 15, 1920;
2.40				date of occurrence not reported.
Greece:				date of occurrence not reported
Kavala	Oct. 25-Nov. 7	2		
India		-	*******	Oct. 24-Nov. 13, 1920; Cases,
				7,037; deaths, 4,567.
Madras Presidency	Nov. 14-27	976	618	1,001, 404(113, 1,001.
Rangoon	Oct. 31-Nov. 20	10	9	
Mesopotamia:	Oct. 51 11011 25111			
Bagdad	Oct. 1-31	25	7	
Mexico:	Oct. 1-01			
Carbonera	Dec. 5-18	2		State of San Luis Potosi.
Cerritos		4	3	Do.
Vera Cruz.		1	0	Oct. 24-30, 1920. Cases, 1; pneu-
Cla Cluz				monic.
Straits Settlements:				anomic.
Singapore	Oct. 31-Nov. 6	1	1	
Turkey:	Oct. 31-101. U		1	
Constantinople	Nov. 21-27	1	2	

¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from June 26 to Dec. 31, 1920, see Public Health Reports for Dec. 31, 1920. The tables of epidemic diseases are terminated semiannually and new tables begun.

Reports Received from Jan. 1 to 14, 1921-Continued.

SMALLPOX.

hs,

2;

80;

56;

20; ed.

ce,

eu-

Place.	Date.	Cases.	Dsathe.	Remarks.
Brazil:				
Pernambuco	Oct. 18-Nov. 14	77	1	
Rio de Janeiro	Oct. 24-30	66	13	
British East Africa:				Mart 1 Tune 20 1000: Cases 270
Uganda		*******		May 1-June 30, 1920: Cases, 272.
Bulgaria: Sofia	Nov. 7-13	2		
Canada:	110111 10	_		
Alberta—				
Calgary	Dec. 12-13	2		
British Columbia-				
Vancouver	Dec. 5-11	1	*******	
New Brunswick-	D 10.10	1		
Restigouche County	Dec. 12-18	1	********	
Ontario—	Dec. 19-31	9		
Hamilton North Bay	Dec. 12-25	4		
Ottawa.	Dec. 12-25	75	1	
Toronto	do	7		
Do	Dec. 26-Jan. 1	10		
Saskatchewan-				
Moose Jaw	Dec. 19-25	.1		
Regina	Dec. 12-25 Dec. 16-22	11 20	********	
Saskatoon	Dec. 10-22	20	********	
Amov	Nov. 7-20		2	
Chungking	Nov. 7-13			Present.
Foorhow	Nov. 7-20 Nov. 7-13 Nov. 7-27			Do.
Nan'ing	Nov. 14-20			Do.
Tientsin	Nov. 14-29	2		Nov. 27, present.
Tsinanfu	Oct. 31-Nov. 12	20		Statistics of Shantung Christian Hospital.
Colombia: Santa Marta	Dec. 5-25			Present.
Cuba:				
Antilla	Dec. 7-27	10		For port of Preston.
Nuovitas	Dec. 6-12	26		From Lugareno, a small station on railway, 16 miles distant.
Santiago	Nov. 20-Dec. 10 Dec. 5-11	1		on ranway, to miles distant.
Dominican Republic				Nov. 15-Dec. 7, 1920: Cases, 8; occurring in 4 localities.
Ecuador:				occurring in a rocumeros
Guavaquil	Nov. 16-30	7	1	
Egypt:				
Cairo	Oct. 1-7	1	********	
France:				
Paris	Nov. 1-10	1 2	1	
RouonGreat Britain;	Nov. 21-27	2	1	
Glasgow	Dec. 5-11	4	1	
Haiti:	Dec. 0 11			
Port au Prince	Sept. 22-Dec. 2	486	. 2	In 8 interior towns, 20 cases. In 1 locality, 18 cases. In country district, vicinity of Port au Prince, cases numer-
				ous. Sept. 26-Oct. 9, 1920. Deaths,
IndiaBombay	Nov. 7 12	1	1	250.
Madras	Nov. 7-13 Nov. 14-20	1	î	200.
Jugo-Slavia	July 25-Aug. 28	128	42	Feb. 7-13, 1920: Cases, 122; deaths, 27.
Madeira:				details, are
Funchal	Dec. 5-11		1	
Mexico:				
Chihuahua	Dec. 6-23	11	3	
Portugal:	Nov. 00 Dec. 4		1	
Lisbon Portuguese East Africa:	Nov. 28-Dec. 4			
Lourenco Marques	Oct. 24-Nov. 13	0		
Quelimane	do	3		
Russia:		3		
Russia: Reval	Oct. 1-31			
Russia: Reval Riga	Oct. 1-31 Nov. 1-7	5		
Russia: Reval. Riga.	Nov. 1-7			
Russia: Reval Riga	Oct. 1-31 Nov. 1-7 Nov. 18-Dec. 1 Dec. 12-18.	5	5 1	

Reports Received from Jan. 1 to 14, 1921-Continued.

SMALLPOX - Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
	Nov. 14-Dec. 4			Present in orthanage and French camps.
Tunis: Tunkey:	Nov. 30-Dec. 13	10	5	
Constantinople	Nov. 21-27	1		
Johannesburg	Oct. 1-31	1		

TYPHUS FEVER.

Chile:				
Concepcion	Nov. 1-22		17	
Valparaiso	Oct. 25-Nov. 27		13	
Egypt:				
Alexandria	Nov. 19-Dec. 2	3	3	
Cairo	Oct. 1-14	12	6	
Great Britain:				
Belfast	Dec. 5-11	3		
Dublin	Nov. 28-Dec. 18	4	3	
Greece:	2101120 21001 10111	-		
Saloniki	Oct. 25-Nov. 7	6	3	
Serres	Nov. 8-14	1		
Japan:				
Nagasaki	Nov. 15-21	2		
Jugo-Slavia	July 25-Aug. 28	27	5	Feb. 7-13, 1920: Cares, 84; deaths,
o to Bor com a tom a contract to the contract	outly to reag. to			2.
Mexico:				
San Luis Potosi	Dec. 5-25			Present.
Poland:	Dec. 6-40			* 1000mm
Warsaw	Dec. 16	8		
Portugal:	Dec. 10	0		
Oporto	Nov. 28-Dec. 4	1		
	Nov. 28-Dec. 4	1		
Russia: Reval	S 1 O-1 21	186		
	Sept. 1-Oct. 31	186		
Riga	Nov. 1-7	17		
Turkey:	** *			
Constantinople	Nov. 21-Dec. 4	13		

YELLOW FEVER.

Mexico: Orizaba Papantla. Tampico	Dec. 5-18 do	2 8	1 2		
Tuxpam	Dec. 5-18	9.	4		
Vera CruzZamora		î	1	Also called Gutierrez. Vera Cruz.	State of